

Procell

Primary Cell Isolation Kits

Empowering Primary Cell Research, Overcoming Isolation Challenges



Primary cells, derived directly from living tissues, offer unparalleled physiological relevance for various research applications, such as drug screening, disease modeling, and personalized medicine. However, isolating and cultivating primary cells is challenging for researchers in the fields.

Primary Cell Research Key Challenges

[Lack of Isolation Experience]

Primary cell isolation is complicated, requiring extensive experience.

- Low reproducibility and inconsistent results
- Worsening sample instability may lead to high costs
- Primary cell isolation requires meticulous attention to detail

[Complex Reagent Preparation]

Tedious reagent preparation, unpredictable variables.

- Laborious formulation adjustments
- Error-prone concentrations, contamination risks
- Tedious reagent preparation can often slow progress

[High Procurement Costs]

Relying on purchased cells can be costly, restrictive, and inflexible.

- Limited budgets impede experiments
- Batch variability affects consistency
- Limited adaptability with respect to personalized models



Procell continually refines its isolation processes to deliver high-efficiency, user-friendly primary cell isolation kits, backed by over a decade of expertise in primary cell isolation.

Product Features

- **Boost Cell Yield and Viability:** Reduce barriers to primary cell isolation
- **Standardized Protocols:** Effectively minimize batch-to-batch variability
- **All-in-one Reagent Kits:** Pre-optimized reagents for easy, accurate isolation and culture
- **Research-ready Performance:** Confidently tackle laboratory and industry challenges
- **Expert-led Support:** Professional, on-demand guidance for primary cell isolation



Applicable Range

Brain

Brain Microvascular Endothelial Cells
Astrocytes
Brain Microvascular Pericytes
Cortical Neurons
Neural Stem Cells

Vascular

Brain Artery Vascular Smooth Muscle Cells
Pulmonary Great Artery Smooth Muscle Cells
Saphenous Vein Smooth Muscle Cells
Aortic Smooth Muscle Cells
Pulmonary Great Artery Endothelial Cells
Aortic Endothelial Cells

Liver

Liver Sinusoidal Endothelial Cells
Hepatic Stellate Cells
Hepatic Parenchymal Cells
Kupffer Cells

Cardiac

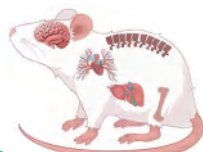
Cardiac Microvascular Endothelial Cells
Cardiac Fibroblasts
Cardiomyocytes

Bone Marrow

Bone Marrow-Derived Endothelial Progenitor Cells
Bone Marrow-Derived Macrophages
Bone Marrow Mononuclear Cells
Bone Marrow Monocytes

Cartilage

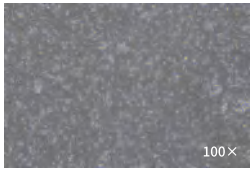
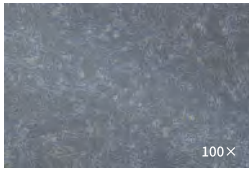
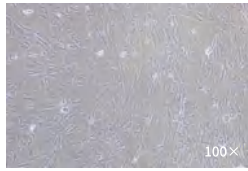

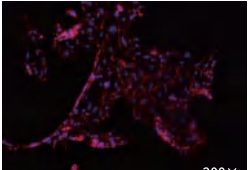
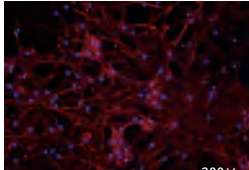
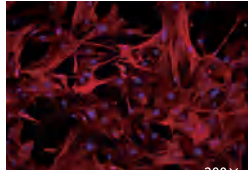
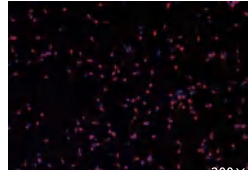
Temporomandibular Joint Chondrocytes
Intervertebral Disc Annulus Fibrosus Cells
Articular Chondrocytes
Acetabular Chondrocytes



Brain

Product Name	Cat. No.	Size
Rat Brain Microvascular Endothelial Cell Isolation and Culture Kit	P-CA-601	3 Tests/10 Tests
Rat Brain Microvascular Pericyte Isolation and Culture Kit	P-CA-602	3 Tests/10 Tests
Rat Neural Stem Cell Isolation and Culture Kit	P-CA-603	3 Tests/10 Tests
Rat Cortical Neuron Isolation and Culture Kit	P-CA-604	3 Tests/10 Tests
Rat Astrocyte Isolation and Culture Kit	P-CA-605	3 Tests/10 Tests
Mouse Brain Microvascular Endothelial Cell Isolation and Culture Kit	P-CA-701	3 Tests/10 Tests
Mouse Brain Microvascular Pericyte Isolation and Culture Kit	P-CA-702	3 Tests/10 Tests
Mouse Neural Stem Cell Isolation and Culture Kit	P-CA-703	3 Tests/10 Tests
Mouse Cortical Neuron Isolation and Culture Kit	P-CA-704	3 Tests/10 Tests
Mouse Astrocyte Isolation and Culture Kit	P-CA-705	3 Tests/10 Tests

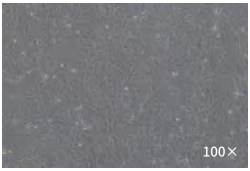
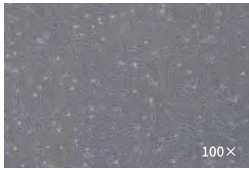
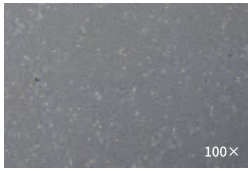
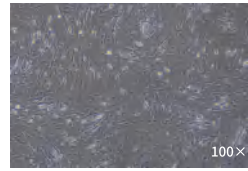
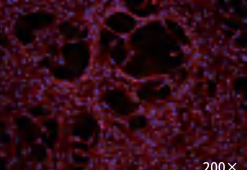
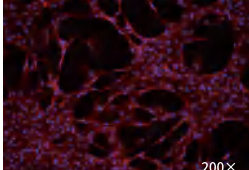
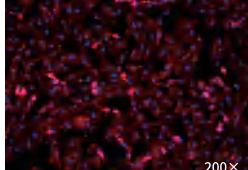
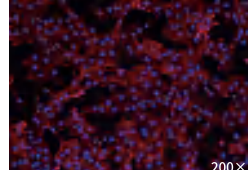
► Isolation Performance (Partial)

	Rat Brain Microvascular Endothelial Cells (CD31)	Rat Astrocytes (GFAP)	Mouse Brain Microvascular Pericytes (α -SMA)	Mouse Cortical Neurons (β -Tubulin)
Microscopic View of Cell Morphology				
Immunofluorescence Identification				

Vascular

Product Name	Cat. No.	Size
Rat Aortic Endothelial Cell Isolation and Culture Kit	P-CA-606	3 Tests/10 Tests
Rat Aortic Smooth Muscle Cell Isolation and Culture Kit	P-CA-607	3 Tests/10 Tests
Rat Pulmonary Great Artery Endothelial Cell Isolation and Culture Kit	P-CA-608	3 Tests/10 Tests
Rat Pulmonary Great Artery Smooth Muscle Cell Isolation and Culture Kit	P-CA-609	3 Tests/10 Tests
Rat Saphenous Vein Smooth Muscle Cell Isolation and Culture Kit	P-CA-610	3 Tests/10 Tests
Rat Brain Artery Vascular Smooth Muscle Cell Isolation and Culture Kit	P-CA-611	3 Tests/10 Tests

► Isolation Performance (Partial)

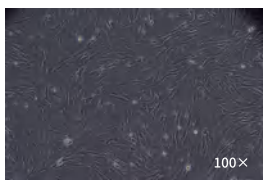
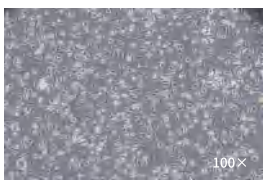
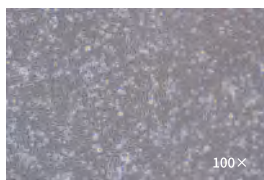

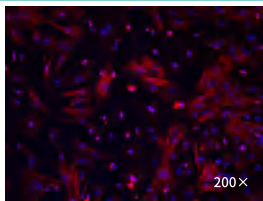
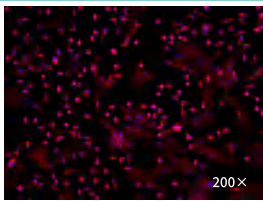
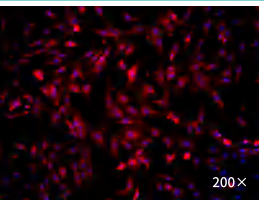
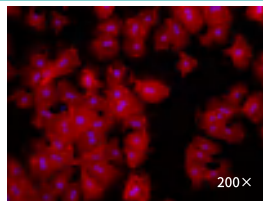
	Rat Aortic Endothelial Cells (CD31)	Rat Pulmonary Great Artery Endothelial Cells (CD31)	Rat Pulmonary Great Artery Smooth Muscle Cells (α -SMA)	Rat Saphenous Vein Smooth Muscle Cells (α -SMA)
Microscopic View of Cell Morphology				
Immunofluorescence Identification				

Liver



Product Name	Cat. No.	Size
Rat Hepatic Stellate Cell Isolation and Culture Kit	P-CA-612	3 Tests/10 Tests
Rat Kupffer Cell Isolation and Culture Kit	P-CA-613	3 Tests/10 Tests
Rat Liver Sinusoidal Endothelial Cell Isolation and Culture Kit	P-CA-614	3 Tests/10 Tests
Rat Hepatic Parenchymal Cell Isolation and Culture Kit	P-CA-615	3 Tests/10 Tests
Mouse Hepatic Parenchymal Cell Isolation and Culture Kit	P-CA-707	3 Tests/10 Tests
Mouse Kupffer Cell Isolation and Culture Kit	P-CA-708	3 Tests/10 Tests
Mouse Liver Sinusoidal Endothelial Cell Isolation and Culture Kit	P-CA-709	3 Tests/10 Tests

► Isolation Performance (Partial)

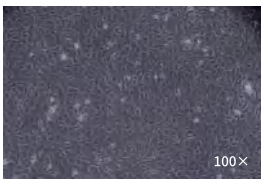
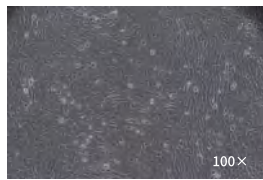
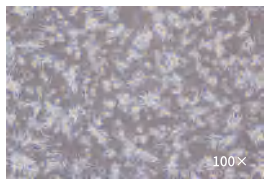
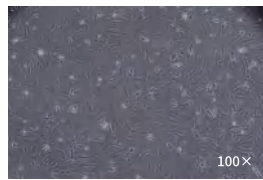
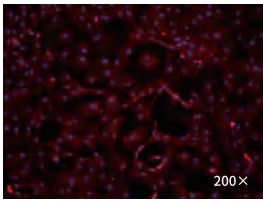
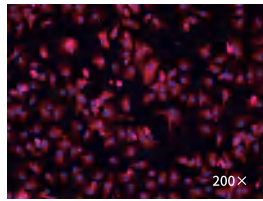
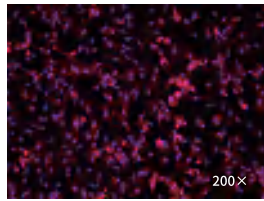
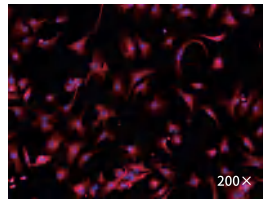
	Rat Hepatic Stellate Cells (α -SMA)	Rat Kupffer Cells (CD68)	Rat Liver Sinusoidal Endothelial Cells (CD31)	Mouse Hepatic Parenchymal Cells (CK-18)
Microscopic View of Cell Morphology				
Immunofluorescence Identification				

Cardiac



Product Name	Cat. No.	Size
Rat Cardiac Microvascular Endothelial Cell Isolation and Culture Kit	P-CA-620	3 Tests/10 Tests
Rat Cardiomyocyte Isolation and Culture Kit	P-CA-621	3 Tests/10 Tests
Rat Cardiac Fibroblast Isolation and Culture Kit	P-CA-622	3 Tests/10 Tests
Mouse Cardiac Microvascular Endothelial Cell Isolation and Culture Kit	P-CA-714	3 Tests/10 Tests
Mouse Cardiomyocyte Isolation and Culture Kit	P-CA-715	3 Tests/10 Tests
Mouse Cardiac Fibroblast Isolation and Culture Kit	P-CA-716	3 Tests/10 Tests


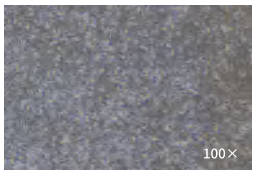
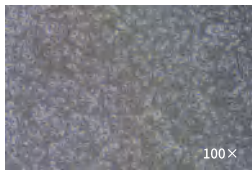
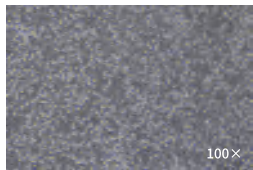
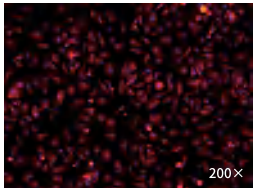
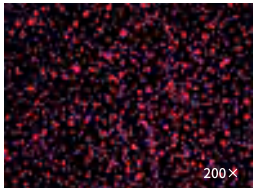
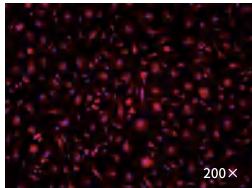
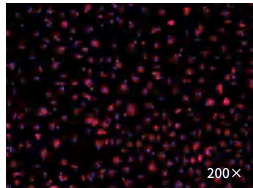
► Isolation Performance (Partial)

	Rat Cardiac Microvascular Endothelial Cells (CD31)	Rat Cardiac Fibroblasts (Vimentin)	Mouse Cardiomyocytes (α -SCA)	Mouse Cardiac Fibroblasts (Vimentin)
Microscopic View of Cell Morphology				
Immunofluorescence Identification				

Bone Marrow

Product Name	Cat. No.	Size
Rat Bone Marrow-Derived Endothelial Progenitor Cell Isolation and Culture Kit	P-CA-616	3 Tests/10 Tests
Rat Bone Marrow-Derived Macrophage Isolation and Culture Kit	P-CA-617	3 Tests/10 Tests
Rat Bone Marrow Monocyte Isolation and Culture Kit	P-CA-618	3 Tests/10 Tests
Rat Bone Marrow Mononuclear Cell Isolation and Culture Kit	P-CA-619	3 Tests/10 Tests
Mouse Bone Marrow-Derived Endothelial Progenitor Cell Isolation and Culture Kit	P-CA-710	3 Tests/10 Tests
Mouse Bone Marrow-Derived Macrophage Isolation and Culture Kit	P-CA-711	3 Tests/10 Tests
Mouse Bone Marrow Monocyte Isolation and Culture Kit	P-CA-712	3 Tests/10 Tests
Mouse Bone Marrow Mononuclear Cell Isolation and Culture Kit	P-CA-713	3 Tests/10 Tests

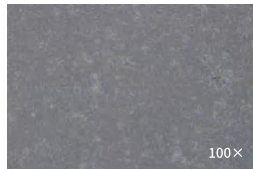
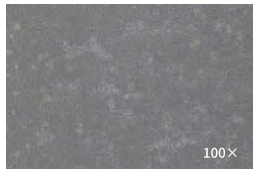


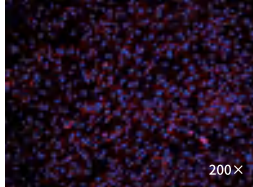
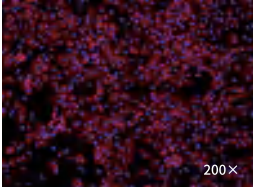
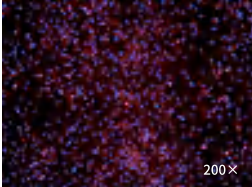
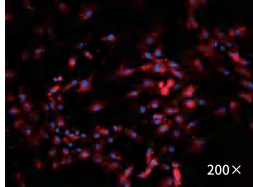
► Isolation Performance (Partial)

	Rat Bone Marrow-Derived Endothelial Progenitor Cells (CD34)	Rat Bone Marrow-Derived Macrophages (CD68)	Rat Bone Marrow Monocytes (CD68)	Mouse Bone Marrow-Derived Macrophages (CD68)
Microscopic View of Cell Morphology				
Immunofluorescence Identification				

Cartilage

Product Name	Cat. No.	Size
Rat Articular Chondrocyte Isolation and Culture Kit	P-CA-623	3 Tests/10 Tests
Rat Acetabular Chondrocyte Isolation and Culture Kit	P-CA-624	3 Tests/10 Tests
Rat Temporomandibular Joint Chondrocyte Isolation and Culture Kit	P-CA-625	3 Tests/10 Tests
Rat Intervertebral Disc Annulus Fibrosus Cell Isolation and Culture Kit	P-CA-626	3 Tests/10 Tests
Mouse Articular Chondrocyte Isolation and Culture Kit	P-CA-717	3 Tests/10 Tests
Mouse Intervertebral Disc Annulus Fibrosus Cell Isolation and Culture Kit	P-CA-718	3 Tests/10 Tests

► Isolation Performance (Partial)

	Rat Temporomandibular Joint Chondrocytes (Collagen II)	Rat Intervertebral Disc Annulus Fibrosus Cells (Collagen I)	Mouse Articular Chondrocytes (Collagen II)	Mouse Intervertebral Disc Annulus Fibrosus Cells (Collagen I)
Microscopic View of Cell Morphology				
Immunofluorescence Identification				

Related Product Recommendations

Classification	Product Name	Cat. No.	Size
Cell Dissociation Reagents	Accutase Cell Detachment Solution	PB180201	100 mL
	0.25% Trypsin Solution, with EDTA, dissolved in PBS	PB180225	125 mL/500 mL
	0.25% Trypsin Solution, with EDTA, phenol red, dissolved in D-Hank's	PB180226	125 mL/500 mL
Cell Freezing Media	General Freezing Medium	PB180436	10 mL×5/10 mL×10
	Freezing Medium (Serum-free & animal origin-free)	PB180438	10 mL×5/50 mL/100 mL
	Primary Cell Cryopreservation Solution (SFC1)	PB180439	10 mL×5/100 mL
Balanced Salt Solutions	Phosphate Buffer (PBS, 1×)	PB180327	500 mL
	Phosphate Buffer (PBS, 10×)	PB180521	500 mL
	Phosphate Buffer (PBS, 1×), with P/S	PB180327A	500 mL
Antibiotics	Penicillin-Streptomycin Solution, 100×	PB180120	125 mL
	Penicillin-Streptomycin-Amphotericin B Solution, 100×	PB180121	100 mL
Universal Primary Cell Complete Media	Endothelial Cell Medium (ECM)	CM-ZY001	500 mL
	Neuronal Medium (NM)	CM-ZY003	500 mL
	Neural Stem Cell Medium (NSCM)	CM-ZY004	500 mL
	Fibroblast Medium (FM)	CM-ZY005	500 mL
	Smooth Muscle Cell Medium (SMCM)	CM-ZY006	500 mL
	Rat Astrocyte Complete Medium	CM-R137	100 mL/125 mL×4
	Mouse Brain Microvascular Pericyte Complete Medium	CM-M222	100 mL/125 mL×4
	Rat Hepatic Stellate Cell Complete Medium	CM-R041	100 mL/125 mL×4
	Mouse Kupffer Cell Complete Medium	CM-M132	100 mL/125 mL×4
	Rat Hepatic Parenchymal Cell Complete Medium	CM-R033	100 mL/125 mL×4
	Mouse Cardiomyocyte Complete Medium	CM-M073	100 mL/125 mL×4
	Rat Cardiac Fibroblast Complete Medium	CM-R074	100 mL/125 mL×4
	Rat Cardiac Microvascular Endothelial Cell Complete Medium	CM-R135	100 mL/125 mL×4
	Mouse Bone Marrow Monocyte Complete Medium	CM-M172	100 mL/125 mL×4
	Rat Bone Marrow-Derived Macrophage Complete Medium	CM-R141	100 mL/125 mL×4
	Rat Bone Marrow-Derived Endothelial Progenitor Cell Complete Medium	CM-R128	100 mL/125 mL×4
	Rat Bone Marrow Mononuclear Cell Complete Medium	CM-R322	100 mL/125 mL×4
	Mouse Articular Chondrocyte Complete Medium	CM-M092	100 mL/125 mL×4
	Rat Temporomandibular Joint Chondrocyte Complete Medium	CM-R324	100 mL/125 mL×4
	Rat Acetabular Chondrocyte Complete Medium	CM-R318	100 mL/125 mL×4
Mouse Intervertebral Disc Annulus Fibrosus Cell Complete Medium	CM-M204	100 mL/125 mL×4	

For more primary cell isolation related product information, please visit www.procellsystem.com or contact local distributors.

Procell Biotechnology Co., Ltd.

 Toll-free: 1-888-852-8623

 Tel: 1-832-243-6086

 Fax: 1-832-243-6017

 Web: www.procellsystem.com

 Email: orders@procellsystem.com; techsupport@procellsystem.com

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