

Primary Neurons for Neuroscience Research

Human Neurons	Cat. #
Human Neurons	1520
Human Cerebellar Granule Cells	1530
Human Neurons-hippocampal	1540
Human Neurons-midbrain	1550
Human Neurons-brain stem	1560

Mouse Neurons	Cat. #
Mouse Neurons-raphe	M1510
Mouse Neurons-cortical	M1520
Mouse Cerebellar Granule Cells	M1530
Mouse Neurons-hippocampal	M1540
Mouse Neurons-substantia nigra	M1550
Mouse Neurons-striatal	M1560
Mouse Neurons-spinal cord	M1590

Rat Neurons	Cat. #
Rat Neurons-raphe	R1510
Rat Neurons-cortical	R1520
Rat Cerebellar Granule Cells	R1530
Rat Neurons-hippocampal	R1540
Rat Neurons-substantia nigra	R1550
Rat Neurons-striatal	R1560
Rat Neurons-ventral spinal cord	R1570
Rat Neurons-dorsal spinal cord	R1580
Rat Neurons-spinal cord	R1590
Rat Neurons-midbrain	R1680

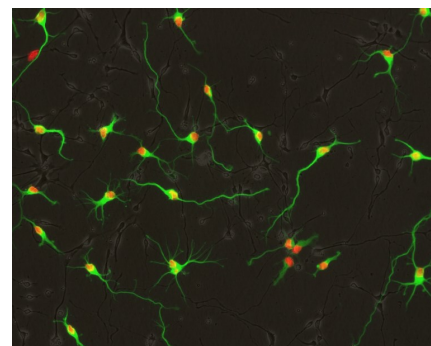
Neuronal Medium	Cat. #
Neuronal Medium	1521
Neural Precursor Cell Medium	1511
Neural Precursor Cell Differentiation Medium	1531

What are Neurons?

Neurons are dynamically polarized cells responsible for electrochemically transmitting information throughout the nervous system. Scientists have characterized hundreds of neuron types based on location, morphology and gene expression. In general, there are three main types of neurons: motor neurons, sensory neurons, and interneurons. Despite great variability in size and shape, most neurons share common morphological features including a cell body, dendrites, the axon, and the axon terminals.

Human, Rat, and Mouse Neurons from ScienCell Research Laboratories:

- Cryopreserved at P0 and delivered frozen
- Each vial contains at least 1 million neurons



Rat Neurons-hippocampal (Cat. #R1540)

- **cDNA, genomic DNA, total RNA, microRNA, and Lysates are available from our Human Primary Cells**
- **Cell Pellets are available from our normal human primary cells.**



Advantages of using normal primary cells for Neuroscience Research

ScienCell normal primary cells:

- are an important control for diseased primary cells
- are more physiologically relevant than immortalized cell lines
- provide insight into how neurological disease affects cell signaling and gene expression

Human Primary Cells	Cat. #
Human Brain Microvascular Endothelial Cells	1000
Human Brain Vascular Smooth Muscle Cells	1100
Human Brain Vascular Adventitial Fibroblasts	1110
Human Brain Vascular Pericytes	1200
Human Choroid Plexus Endothelial Cells	1300
Human Choroid Plexus Epithelial Cells	1310
Human Choroid Plexus Fibroblasts	1320
Human Brain Ependymal Cells	1340
Human Meningeal Cells	1400
Human Leptomeningeal Pericytes	1410
Human Dural Fibroblasts	1420
Human Dural Microvascular Endothelial Cells	1430
Rat Oligodendrocyte Precursor Cells	1600
Human Schwann Cells	1700
Human Perineurial Cells	1710
Human Astrocytes	1800
Human Astrocytes-cerebellar	1810
Human Astrocytes-spinal cord	1820
Human Astrocytes-hippocampal	1830
Human Astrocytes-brain stem	1840
Human Astrocytes-midbrain	1850
Human Retinal Astrocytes	1870
Human Microglia	1900

Bovine Primary Cells	Cat. #
Bovine Brain Microvascular Endothelial Cells	B1000
Bovine Astrocytes	B1800

Specialty Medium	Cat. #
Astrocyte Medium	1801
Microglia Medium	1901
Schwann Cell Medium	1701
Pericyte Medium	1201
Pericyte Medium-mouse	1231
Smooth Muscle Cell Medium	1101
Meningeal Cell Medium	1401
Epithelial Cell Medium	4101
Endothelial Cell Medium	1001
Fibroblast Medium	2301
Oligodendrocyte Precursor Cell Medium	1601
Oligodendrocyte Precursor Cell Differentiation Medium	1631
Ependymal Cell Medium	1341

Rat Primary Cells	Cat. #
Rat Brain Microvascular Endothelial Cells	R1000
Rat Brain Vascular Pericytes	R1200
Rat Pituitary Cells	R1220
Rat Meningeal Cells	R1400
Rat Oligodendrocyte Precursor Cells	R1600
Rat Schwann Cells	R1700
Rat Perineurial Fibroblasts	R1710
Rat Astrocytes	R1800
Rat Astrocytes-cerebellar	R1810
Rat Astrocytes-hippocampal	R1820
Rat Astrocytes-adult	R1860
Rat Retinal Astrocytes	R1870
Rat Microglia	R1900

Mouse Primary Cells	Cat. #
Mouse Brain Vascular Pericytes	M1200
Mouse Meningeal Cells	M1400
Mouse Schwann Cells	M1700
Mouse Perineurial Fibroblasts	M1710
Mouse Astrocytes-cerebellar	M1810
Mouse Astrocytes-hippocampal	M1820
Mouse Astrocytes-spinal cord	M1830
Mouse Astrocytes-brain stem	M1840
Mouse Astrocytes-midbrain	M1850
Mouse Microglia	M1900

Rabbit Primary Cells	Cat. #
Rabbit Astrocytes	Rab1800

Cell Culture Reagents	Cat. #
Poly-L-Lysine, 1 mg/ml	0403
Poly-L-Lysine, 10 mg/ml	0413
Bovine Plasma Fibronectin	8248
Trypsin/EDTA Solution 0.25%	0103
Trypsin/EDTA Solution 0.05%	0183
Trypsin Neutralization Solution	0113
Trypan Blue Solution 0.4%	0203
Dulbecco's Phosphate-Buffered Saline	0303
Cell Culture Grade Water	0600
Hank's Balanced Salt Solution	0313
Enzyme-free Cell Dissociation Solution	0123
0.2% Gelatin Solution	0423

