

Nervous System Primary Cells

The nervous system is divided into Central Nervous System (CNS) and Peripheral Nervous System (PNS). The nervous system coordinates actions and sensory information by transducing signals from and to different parts of the body. AcceGen offers 59 different types of nervous system related primary cells isolated from different regions.

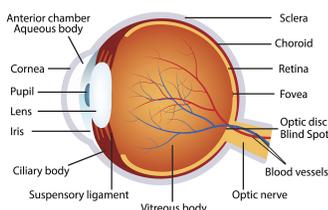


Nervous Cells

The nervous cells are mainly comprised of primary neurons and glial cells (also called neuroglia or glia). The main function of neurons, which are the structural and functional units of the nervous system, is to transmit signals. Glial cells support neurons via providing with nutrients and other materials etc.

AcceGen isolates and offers a range of human neurons, cerebellar cells, and dendritic cells for primary neuron culture, as well as human astrocytes, microglial, oligodendrocytes, and Schwann cells etc. for primary glia culture.

Ocular Cells



Human Ocular cells are part of the sensory nervous system. The Ocular Cell system is composed of the eye and its visual system (cornea, lens, and fluids). Epithelial cells, keratocytes, fibroblasts, and trabecular meshwork cells are critical components to support the normal function of the ocular cell system, transmitting light into visual signals.

Abnormal cell proliferation and regulation in the ocular cell system leads to the development of ocular diseases such as corneal inflammation, proliferative retinopathy, macular degeneration, glaucoma, and retinoblastoma.

AcceGen offers different types of normal human primary cells in the ocular cell system; such as corneal and lens epithelial cells for the ocular cell system research.

Featured Products

Cat. #	Product Name	Product Type
ABC-TC3722	Human Neurons	Nervous Cells
ABC-TC3704	Human Microglia	Nervous Cells
ABC-TC3793	Human Schwann Cells	Nervous Cells
ABC-TC3969	Human Astrocytes	Nervous Cells
ABC-TC3791	Human Retinal Pigment Epithelial Cells	Ocular Cells
ABC-TC3658	Human Iris Pigment Epithelial Cells	Ocular Cells

To know more Human Nervous System Primary Cells, please contact us at 1-862-686-2696 or info@accegen.com; or view the full products list at: <https://www.accegen.com/category/nervous-system-primary-cells/>

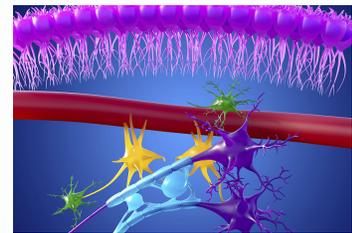
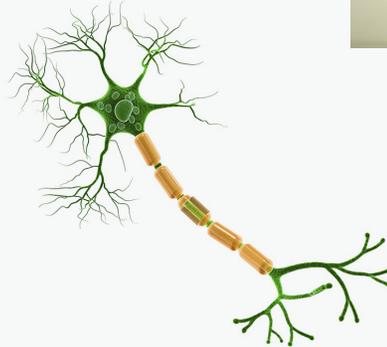
ABC-TC3793 Human Schwann Cells (HSwC)

Human Schwann Cells are principal glial cells within the peripheral nervous system, which play important role in the maintenance and regeneration of the motor and sensory neurons as well as forming the myelin sheath around the nerve fibers. Schwann cells also produce a variety of factors such as neurotrophies.

Apart from myelinating Schwann cells, there are non-myelinating Schwann cells, providing nutrition and cushioning effects to non-myelinated axons.

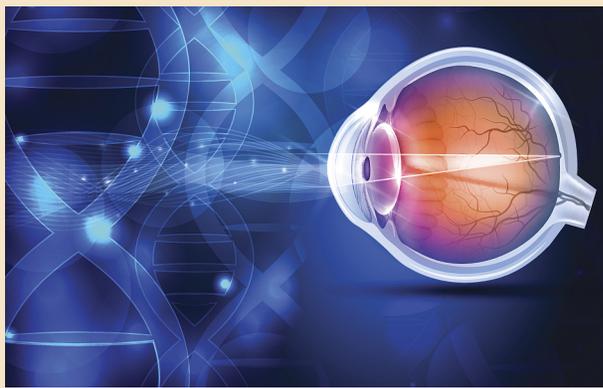
Functions

- Conducting nervous impulses along axons
- Nerve development and regeneration
- Producing nerve extracellular matrix
- Modulating neuromuscular synaptic activity
- Presenting antigens to T lymphocytes
- Trophic support for neurons



To know more about AcceGen Human Schwann Cells, please refer to:
<https://www.accegen.com/product/human-schwann-cells-abc-tc3793/>

ABC-TC3669 Human Lens Epithelial Cells (HLEpiC)



The mammalian lens consists of two cell types, lens fiber cells and lens epithelial cells. The lens epithelial cells are a monolayer of cells that cover the anterior surface of the fibers. The lens epithelial cells maintain normal physiology of the lens. Human Lens Epithelial Cells (HLEpiC) are responsible for the transport of electrolyte and fluid to regulate lens homeostasis.

Some studies have demonstrated that lens epithelial cell differentiation and lens polarization are regulated

by growth factors present in the ocular fluids, including epidermal growth factor, basic fibroblast growth factor, insulin growth factor, and insulin. Therefore, the culture of HLEpiC provides important information about the role it's playing in the formation of epithelium in normal and cataract.

To know more about AcceGen Human Lens Epithelial Cells, please refer to:
<https://www.accegen.com/product/human-lens-epithelial-cells-abc-tc3669/>



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