Polyclonal NG2/Cspg4 Antibody, Rabbit IgG

Catalog # NG4-S455

Source

Polyclonal NG2/Cspg4 Antibody, Rabbit IgG is a polyclonal antibody purified from rabbit serum.
Gene Synonyms: Cspg4, NG2, chondroitin sulfate proteoglycan 4, MCSP, MCSPG, Cspa, Cspg4a; 4732461B14Rik.

Species

Rabbit polyclonal antibodies

Isotype

Rabbit IgG

Antibody Type

Polyclonal Antibody

Immunogen

The extracellular fragment of mouse CSPG4.

Specificity

Antigen retrieval is required for brighter signal before immunostaining. This antibody may not be suitable for IF staining on brain sections from animals older than P7.

Application

Application	Recommended Usage
IF	1:200

Purification

Protein A purified / Protein G purified

Formulation

Supplied as 0.2 μm filtered solution in pH7.4, PBS, 65 mM Tris, 50 Mm Glycine with 40% glycerol as protectant.

Contact us for customized product form or formulation.

Shipping

This product is supplied and shipped with blue ice, please inquire the shipping cost.

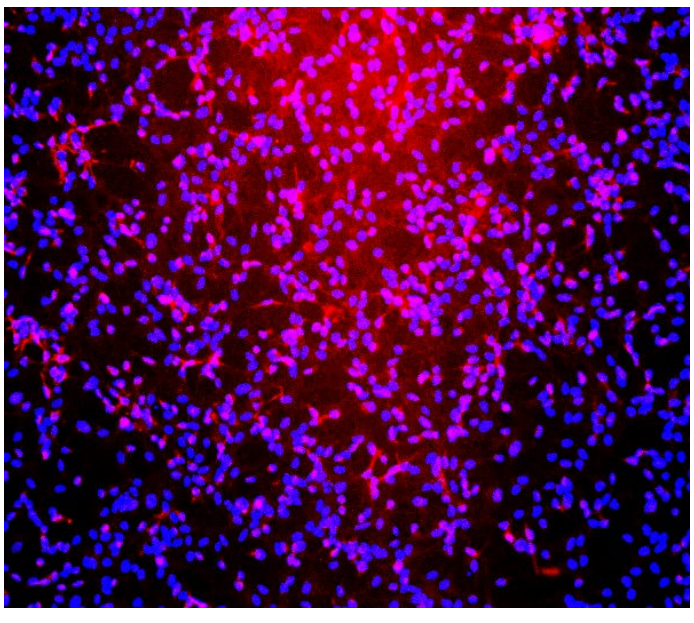
Storage

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- Shipped at -20°C. Store at -20°C for 20 months;
- Shipped at -20°C. Store at -70°C for 3 years.

Immunostaining



2D cell staining: Immunofluorescent staining (10X) of cerebral organoid-derived neurons (CIPO-BWL001K) labeling NG2 (Red) with purified NG4-S455 at 1:200 dilution. DAPI (blue) was used as nuclear counterstain.

Background

Neuron-glial antigen 2 (NG2), also known as chondroitin sulphate proteoglycan 4 (CSPG4), is a surface type I transmembrane core proteoglycan that is crucially involved in cell survival, migration and angiogenesis. In the central nervous system, NG2/Cspg4 is expressed in certain glia cells which are sometimes called polydendrocytes or oligodendrocyte precursor cells (OPCs), as well as in mesenchymal stem cells, osteoblasts, melanocytes, smooth muscle cells and macrophages. NG2/Cspg4-mediated signaling has been shown to play an important role in the progression of several tumor types including glioblastoma and malignant melanoma. NG2/Cspg4 is also a typical marker for vessel-surrounding pericytes, which contribute to the stabilization of microvessels, the regulation of capillary blood flow and angiogenesis.

Ampofo E, et al. Cell Mol Biol Lett. 2017;22:4. doi: 10.1186/s11658-017-0035-3.

General Notes: FOR RESEARCH USE ONLY.

Clinical and Translational Updates