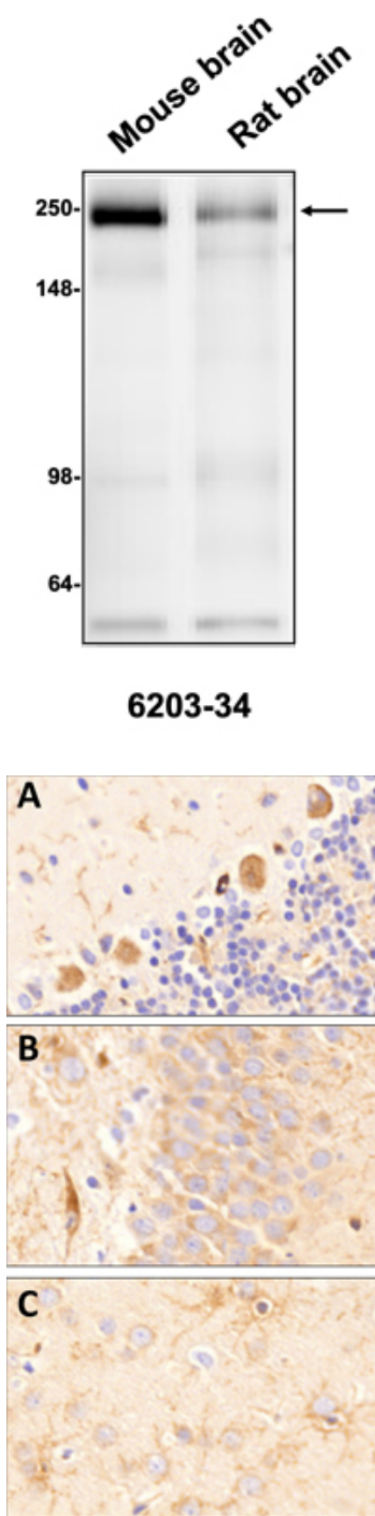


## PRODUCT DATASHEET

**Anti-CSPG4/NG2 Antibody****Overview**

|                           |                                                                                                           |
|---------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Catalog #</b>          | 77-523 (100 µL size) or 77-523-020 (20 µL size)                                                           |
| <b>Conjugate</b>          | Unconjugated                                                                                              |
| <b>Isotype</b>            | IgG1                                                                                                      |
| <b>Clone Number</b>       | 6203-34                                                                                                   |
| <b>Concentration</b>      | 1 mg/mL                                                                                                   |
| <b>Host Species</b>       | Mouse Monoclonal                                                                                          |
| <b>Format</b>             | Purified by Protein A chromatography                                                                      |
| <b>Buffer</b>             | 10 mM Tris, 50 mM Sodium Chloride, 0.065% Sodium Azide pH 7.4                                             |
| <b>Applications</b>       | IHC, WB                                                                                                   |
| <b>Species Reactivity</b> | Human, Mouse, and Rat                                                                                     |
| <b>Immunogen</b>          | Fusion protein amino acids S1583-S2224 of human CSPG4/NG2 (accession number Q6UVK1) produced in CHO cells |
| <b>Molecular Weight</b>   | 250 kDa                                                                                                   |
| <b>Cite this Antibody</b> | Pel-Freez Biologicals Cat# 77-523, RRID: AB_2938812                                                       |

## Figures



Far left: Western blotting of mouse or rat brain homogenate (10 ug/lane) with Pel-Freez Biologicals anti-CSPG4/NG2 antibody at 1:50 dilution and detected with anti-mouse HRP. Near left: Sagittal section of formalin-fixed, paraffin- embedded rat brain showing strong staining for CSPG4/NG2 in the cerebellum, hippocampus and cortex (A-C respectively). Sections were stained with Pel-Freez Biologicals mouse anti-CSPG4/NG2 (clone 6203-34) antibody at 1:40 dilution and detected with anti-mouse HRP.

## Details

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Target Description</b>    | Neuron-glia antigen 2 (NG2) is a chondroitin sulfate proteoglycan that is encoded by the CSPG4 gene in humans. It is an excellent oligodendrocyte marker. NG2 is a hallmark protein of oligodendrocyte progenitor cells (OPCs) and has been linked with familial schizophrenia (de Vrij, F.M., et al, 2018). NG2 also plays a role in stabilizing cell-substratum interactions during early events of melanoma cell spreading on endothelial basement membranes. It represents an integral membrane chondroitin sulfate proteoglycan expressed by human malignant melanoma cells (Luo, W., et al, 2006). NG2 localizes at the apical plasma membrane and relocates to the lamellipodia of astrocytoma upon PRKCA phosphorylation. |
| <b>Specificity</b>           | No cross-reactivity reported.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Purification Method</b>   | Produced by in vitro bioreactor culture of hybridoma lines followed by Protein A affinity chromatography. Purified mAbs are >90% specific antibody.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Quality Control Tests</b> | Each new lot of antibody is quality control tested by western blot on rat whole brain lysate and confirmed to stain the expected molecular weight band.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Storage</b>               | Aliquot and store at $\leq -20^{\circ}\text{C}$ for long term storage. For short term storage, store at $2-8^{\circ}\text{C}$ . For maximum recovery of product, centrifuge the vial prior to removing the cap.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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