

## Product Datasheet

## Anti-CSPG4/NG2 Antibody FL550 Conjugate

## Overview

|                           |   |
|---------------------------|---|
| <b>Catalog #</b>          | 77-523-FL550  |
| <b>Conjugate</b>          | FL550 Ex: 550 nm, Em: 575 nm  |
| <b>Isotype</b>            | IgG1  |
| <b>Clone Number</b>       | 6203-34   |
| <b>Size</b>               | 200 $\mu$ L   |
| <b>Concentration</b>      | 0.5 mg/mL   |
| <b>Host Species</b>       | Mouse Monoclonal  |
| <b>Format</b>             | Purified by Protein A chromatography  |
| <b>Buffer</b>             | PBS with 0.09% azide  |
| <b>Applications</b>       | IHC   |
| <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> | Antibodies Inc Cat# 77-523-FL550, RRID: AB_2940717  |

## 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 relocalizes 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 line followed by Protein A affinity chromatography and conjugation of purified mAb. 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.   |

**Storage**

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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