

Product datasheet for TA336295

NG2 (CSPG4) Mouse Monoclonal Antibody [Clone ID: LHM 2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	LHM 2
Applications:	FC, IHC, WB
Recommend Dilution:	WB: 1:1000, FC: 1:400, IF: 1:100, IHC: 1:200, IHC-F: 1:200, IHC-P: 1:200, IP: 1:10-1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	A 375P cells crude extract
Formulation:	PBS containing 0.05% BSA, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	1 mg/ml
Purification:	Protein G purified
Gene Name:	chondroitin sulfate proteoglycan 4
Database Link:	NP_001888 Entrez Gene 1464 Human
Background:	NG2 (Neuron Glial Antigen 2), also known as MCSP, and CSPG4 is a chondroitin surface proteoglycan. Chondroitin surface proteoglycans play a role in stabilizing cell-substratum interactions during early events of cell spreading. At large, proteoglycans are important for cell proliferation and migration, and may act as signal transducers through C-terminal cytoplasmic binding to scaffolding or signaling proteins. The NG2 glycoprotein is a type I membrane protein expressed in the developing and adult central nervous system (CNS) by subpopulations of glia including oligodendroglial precursor cells (OPCs), and in the developing CNS additionally by pericytes. NG2 is located at the apical cell membrane, however it has also been shown to localize to the lamellipodia of astrocytoma upon phosphorylation by PRKCA. Research has found that NG2 may inhibit neuronal growth (PMC1571583), and also acts as a proapoptotic receptor.
Synonyms:	HMW-MAA; MCSP; MCSPG; MEL-CSPG; MSK16; NG2

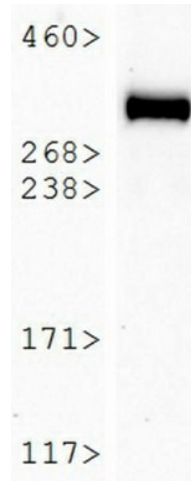


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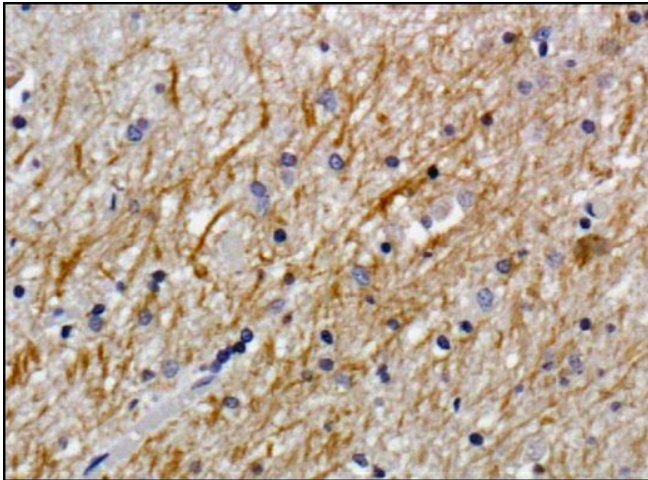
Note: This NG2 Antibody (LHM 2) is useful for Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry on both frozen and paraffin-embedded sections, Immunoprecipitation and Western Blot. In WB, a band can be seen at ~300 kDa.

Protein Families: Transmembrane

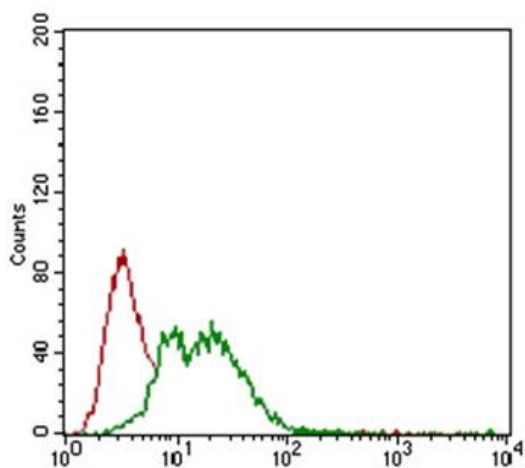
Product images:



Western Blot: NG2 Antibody (LHM 2) TA336295 - Western blot analysis of NG2 expression in HeLa whole cell lysate.



Immunohistochemistry-Paraffin: NG2 Antibody (LHM 2) TA336295 - IHC staining of NG2 in human brain using DAB with hematoxylin counterstain.



Flow Cytometry: NG2 Antibody (LHM 2) TA336295
- NG2 antibody was tested at 1:400 in MCF7 cells using an Alexa Fluor 488 secondary (shown in green) alongside unstained cells (shown in red).