Mouse anti-Human CSPG4/NG2 Monoclonal Antibody | anti-CSPG4 antibody

CSPG4/NG2 Mouse anti-Human Monoclonal (aa559-776) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA162787	**Mouse**	**Human**	**Western Blot, Immunohistochemistry, Immunohistochemistry**

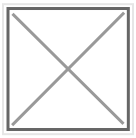
PRODUCT SYNONYMS

CSPG4/NG2; Monoclonal Antibody; CSPG4/NG2 Mouse anti-Human Monoclonal (aa559-776) Antibody; PathPlus CSPG4/NG2 Antibody (aa559-776); CSPG4; MCSP; MEL-CSPG; MSK16; NG2; HMW-MAA; MCSPG; anti-CSPG4 antibody

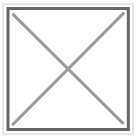
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1,k
Specificity	The antibody is a mouse monoclonal antibody raised against MCSP.
Purity/Purification	Protein A + Protein G affinity chromatography
Form/Format	PBS, pH7.4, 0.02% Sodium Azide, 50% Glycerol
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-CSPG4 antibody	WB (Western Blot), IHC (Immunohistochemistry), IHC (Immunohistochemistry)
Target	Human CSPG4/NG2
Immunogen	Recombinant MCSP (His559-Pro776) expressed in E Coli.
Conjugation	Unconjugated
Epitope	aa559-776
Preparation and Storage	Avoid repeated freeze/thaw cycles. Store at 4 degree C for frequent use. Aliquot and store at -20 degree C for 12 months.

IMAGES



IHC (Immunohistochemisry)
CSPG4/NG2 Antibody-Human Small Intestine, Myenteric Plexus: Formalin-Fixed, Paraffin-Embedded (FFPE



IHC (Immunohiostchemistry)
CSPG4/NG2 Antibody-Human Skin: Formalin-Fixed, Paraffin-Embedded (FFPE

WB (Western Blot)
CSPG4/NG2 Antibody-Western blot of recombinant CSPG4/NG2.

ADDITIONAL INFORMATION

Related Product Information for anti-CSPG4 antibody	NG2 antibody is an unconjugated mouse monoclonal antibody to human NG2 (CSPG4)(aa559-776). Validated for IHC and WB. CSPG4 (Chondroitin sulfate proteoglycan 4, MCSP, NG2) is a transmembrane proteoglycan that functions in angiogenesis, cell survival and migration, and the modulation of neuronal networks and pericyte functions. CSPG4 is an important prognostic marker in cancer, as it is upregulated in glioblastoma and is expressed on the cell surface of malignant melanoma cells, where it is involved in progression and spreading. In normal tissue, CSPG4 is highly expressed on NG2-glia cells in the brain, and is also found on osteoblasts, melanocytes, smooth muscle cells, mesenchymal stem cells, and pericytes. It is also a useful marker for oligodendrocyte precursor cells in developing and adult humans. Mutations in CSPG4 can result in a disruption in white matter integrity and oligodendrocyte morphology in the brain and are correlated with familial schizophrenia. In immunohistochemistry, CSGP4 has membranous and cytoplasmic positivity in all tissues throughout the body.
References	Cellular & Molecular Biology Letters. 2017. 22(4), PMID: 28536635; Int J Mol Sci. 2018 Sep; 19(9): 2724, PMID: 30213051; Mol Psychiatry. 2019 May;24(5):757-771, PMID: 29302076

NCBI AND UNIPROT INFORMATION

NCBI GI #	47419930
NCBI GeneID	1464
NCBI Accession #	NP_001888.2
NCBI GenBank Nucleotide #	NM_001897
UniProt Accession #	Q6UVK1; Q92675; D3DW77
Molecular Weight	250537 MW
NCBI Official Full Name	chondroitin sulfate proteoglycan 4
NCBI Official Synonym Full Names	chondroitin sulfate proteoglycan 4
NCBI Official Symbol	CSPG4
NCBI Official Synonym Symbols	NG2; MCSP; MCSPG; MSK16; HMW-MAA; MEL-CSPG
NCBI Protein Information	chondroitin sulfate proteoglycan 4
UniProt Protein Name	Chondroitin sulfate proteoglycan 4
UniProt Gene Name	**CSPG4**
UniProt Synonym Gene Names	MCSP
UniProt Entry Name	CSPG4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/monoclonal/cspg4-ng2-antibody-western-blot-immunohistochemistry-immunohistochemistry-elisa/162787