

Anti-NG2 CSPG4 Rabbit Monoclonal Antibody

Catalog # ABO13276

Product Information

Application	WB, IHC, FC
Primary Accession	Q6UVK1
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid
Description	Anti-NG2 CSPG4 Rabbit Monoclonal Antibody . Tested in WB, IHC, Flow Cytometry applications. This antibody reacts with Human.

Additional Information

Gene ID	1464
Other Names	Chondroitin sulfate proteoglycan 4, Chondroitin sulfate proteoglycan NG2, Melanoma chondroitin sulfate proteoglycan, Melanoma-associated chondroitin sulfate proteoglycan, CSPG4, MCSP
Calculated MW	250537
Application Details	WB 1:500-1:2000 IHC 1:50-1:200 FC 1:50
Subcellular Localization	Cell membrane ; Single-pass type I membrane protein ; Extracellular side. Apical cell membrane ; Single-pass type I membrane protein ; Extracellular side. Cell projection, lamellipodium membrane ; Single-pass type I membrane protein ; Extracellular side. Cell surface. Localized at the apical plasma membrane it relocalizes to the lamellipodia of astrocytoma upon phosphorylation by PRKCA. Localizes to the retraction fibers. Localizes to the plasma membrane of oligodendrocytes (By similarity)..
Tissue Specificity	Detected only in malignant melanoma cells..
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: AOFG-3
Immunogen	A synthesized peptide derived from human NG2
Purification	Affinity-chromatography

Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
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Protein Information

Name	CSPG4
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Synonyms	MCSP
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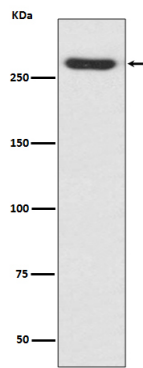
Function	Proteoglycan playing a role in cell proliferation and migration which stimulates endothelial cells motility during microvascular morphogenesis. May also inhibit neurite outgrowth and growth cone collapse during axon regeneration. Cell surface receptor for collagen alpha 2(VI) which may confer cells ability to migrate on that substrate. Binds through its extracellular N-terminus growth factors, extracellular matrix proteases modulating their activity. May regulate MPP16-dependent degradation and invasion of type I collagen participating in melanoma cells invasion properties. May modulate the plasminogen system by enhancing plasminogen activation and inhibiting angiostatin. Also functions as a signal transducing protein by binding through its cytoplasmic C-terminus scaffolding and signaling proteins. May promote retraction fiber formation and cell polarization through Rho GTPase activation. May stimulate alpha-4, beta-1 integrin-mediated adhesion and spreading by recruiting and activating a signaling cascade through CDC42, ACK1 and BCAR1. May activate FAK and ERK1/ERK2 signaling cascades.
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Cellular Location	Cell membrane {ECO:0000250 UniProtKB:Q00657}; Single-pass type I membrane protein {ECO:0000250 UniProtKB:Q00657}; Extracellular side {ECO:0000250 UniProtKB:Q00657}. Apical cell membrane {ECO:0000250 UniProtKB:Q00657}; Single-pass type I membrane protein {ECO:0000250 UniProtKB:Q00657}; Extracellular side {ECO:0000250 UniProtKB:Q00657}. Cell projection, lamellipodium membrane {ECO:0000250 UniProtKB:Q00657}; Single-pass type I membrane protein {ECO:0000250 UniProtKB:Q00657}; Extracellular side {ECO:0000250 UniProtKB:Q00657}. Cell surface {ECO:0000250 UniProtKB:Q00657}. Note=Localized at the apical plasma membrane it relocates to the lamellipodia of astrocytoma upon phosphorylation by PRKCA. Localizes to the retraction fibers. Localizes to the plasma membrane of oligodendrocytes (By similarity) {ECO:0000250 UniProtKB:Q00657, ECO:0000250 UniProtKB:Q8VHY0}
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Tissue Location	Detected in fibroblasts (at protein level) (PubMed:36213313). Detected in placenta (at protein level) (PubMed:32337544). Detected in malignant melanoma cells
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Images

Western blot analysis of NG2 expression in A375 cell lysate.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.