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# Anti-NG2 CSPG4 Rabbit Monoclonal Antibody

**Catalog # ABO13276**

## Specification

### Anti-NG2 CSPG4 Rabbit Monoclonal Antibody - 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.

### Anti-NG2 CSPG4 Rabbit Monoclonal Antibody - 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 MW KDa

**Application Details**
WB 1:500-1:2000<br>IHC 1:50-1:200<br>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..

**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.

**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.** |

## Anti-NG2 CSPG4 Rabbit Monoclonal Antibody - Protein Information

**Name** CSPG4

**Synonyms** MCSP

**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.

**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 relocalizes 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}

**Tissue Location**
Detected in fibroblasts (at protein level) (PubMed:36213313). Detected in placenta (at protein level) (PubMed:32337544). Detected in malignant melanoma cells

## Anti-NG2 CSPG4 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation

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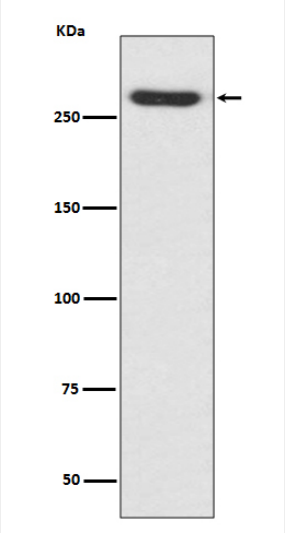
- Flow Cytomety
- Cell Culture

**Anti-NG2 CSPG4 Rabbit Monoclonal Antibody - Images**




Western blot analysis of NG2 expression in A375 cell lysate.