

# NG2 Rabbit mAb

Catalog # AP77614

#### **Product Information**

Application WB, IHC-P, FC
Primary Accession Q6UVK1
Reactivity Human
Host Rabbit

**Clonality** Monoclonal Antibody

**Isotype** IgG

**Conjugate** Unconjugated

**Immunogen** A synthesized peptide derived from human NG2

**Purification** Affinity Chromatography

Calculated MW 250537

## **Additional Information**

**Gene ID** 1464

Other Names CSPG4

**Dilution** WB~~1/500-1/1000 IHC-P~~N/A FC~~1:10~50

Format Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02%

sodium azide and 50% glycerol.

**Storage** Store at 4°C short term. Aliquot and store at -20°C long term. Avoid

freeze/thaw cycles.

#### **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

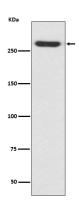
**Tissue Location** 

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

{ECO:0000250|UniProtKB:Q00657, ECO:0000250|UniProtKB:Q8VHY0}

plasma membrane of oligodendrocytes (By similarity)

### **Images**



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