

# Product Information

## Recombinant Anti-Human cspg4 Antibody

Cat. No.: **MOM-18380**

This product is for research use only and is not intended for diagnostic use.

### Product Overview

Recombinant Mouse Antibody binds selectively to Human CSPG4, expressed in Chinese Hamster Ovary cells(CHO)

### Antigen Description

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. Functions also 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.

### Specific Activity

Tested positive against native antigen.

### Target

CSPG4

### Immunogen

Cell extract of HEK293 cells expressing the D3 domain of rat NG2, corresponding to amino acids 1592-2222.

### Source

Mouse

### Species Reactivity

Human

### Type

IgG

### Expression Host

CHO

### Purity

>95.0%, determined by analysis by RP-HPLC & analysis by SDS-PAGE.

### Applications

Suitable for use in IF, IP, Neut and most other immunological methods.

### Storage

Store at -20°C. Avoid multiple freeze/thaw cycles.

## ANTIGEN GENE INFORMATION

### Gene Name

[CSPG4 chondroitin sulfate proteoglycan 4 \[ Homo sapiens \]](#)

### Official Symbol

CSPG4

### Synonyms

CSPG4; chondroitin sulfate proteoglycan 4; chondroitin sulfate proteoglycan 4 (melanoma associated); HMW MAA; MCSP; MCSPG; MEL CSPG; melanoma associated chondroitin sulfate proteoglycan; MSK16; NG2; chondroitin sulfate proteoglycan NG2; melanoma chondroitin sulfate proteoglycan; melanoma-associated chondroitin sulfate proteoglycan; chondroitin sulfate proteoglycan 4 (melanoma-associated); HMW-MAA; MEL-CSPG

### Gene ID

[1464](#)

### mRNA Refseq

[NM\\_001897](#)

### Protein Refseq

[NP\\_001888](#)

### MIM

[601172](#)

### UniProt ID

Q6UVK1

### Chromosome Location

15q24.2

### Function

collagen binding; protein kinase binding; signal transducer activity;