

For Research Use Only

# CSPG4 Polyclonal antibody

Catalog Number: 55027-1-AP

34 Publications



## Basic Information

Catalog Number:

55027-1-AP

Concentration:

800 ug/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM\_001897

GeneID (NCBI):

1464

UNIPROT ID:

Q6UVK1

Full Name:

chondroitin sulfate proteoglycan 4

Calculated MW:

251 kDa

Observed MW:

240-250 kDa, 450kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:1000-1:4000

## Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Positive Controls:

WB : A375 cells,

## Background Information

CSPG4, also named as HMW-MAA, MCSP, MCSPG, MEL-CSPG, MSK16 and NG2, is a proteoglycan playing a role in cell proliferation and migration which stimulates endothelial cells motility during microvascular morphogenesis. CSPG4 may inhibit neurite outgrowth and growth cone collapse during axon regeneration. It is cell surface receptor for collagen alpha 2(VI) which may confer cells ability to migrate on that substrate. CSPG4 may regulate MMP16-dependent degradation and invasion of type I collagen participating in melanoma cells invasion properties. It modulates the plasminogen system by enhancing plasminogen activation and inhibiting angiostatin. CSPG4 functions as a signal transducing protein by binding through its cytoplasmic C-terminus scaffolding and signaling proteins. It promotes retraction fiber formation and cell polarization through Rho GTPase activation and stimulates alpha-4, beta-1 integrin-mediated adhesion and spreading by recruiting and activating a signaling cascade through CDC42, ACK1 and BCAR1. CSPG4 activates FAK and ERK1/ERK2 signaling cascades. The antibody is specific to CSPG4.

## Notable Publications

Author	Pubmed ID	Journal	Application
Lirong Liang	34585785	J Pineal Res	WB
Yu Shen	31563141	J Neurochem	
Shuisheng Yu	34646136	Front Pharmacol	

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

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E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



A375 cells were subjected to SDS PAGE followed by western blot with 55027-1-AP (CSPG4,NG2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.