

For Research Use Only

CoraLite®488-conjugated CSPG4 Polyclonal antibody

Catalog Number:CL488-55027



Basic Information

Catalog Number: CL488-55027	GenBank Accession Number: NM_001897	Purification Method: Antigen affinity purification
Concentration: 1000 ug/ml	GeneID (NCBI): 1464	Recommended Dilutions: WB 1:200-1:1000
Source: Rabbit	UNIPROT ID: Q6UVK1	Excitation/Emission maxima wavelengths: 491 nm / 516 nm
Isotype: IgG	Full Name: chondroitin sulfate proteoglycan 4	
	Calculated MW: 251 kDa	
	Observed MW: 300 kDa	

Applications

Tested Applications: WB	Positive Controls: WB : A375 cells,
Species Specificity: human, mouse, rat	

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.

Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
Aliquoting is unnecessary for -20°C storage

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

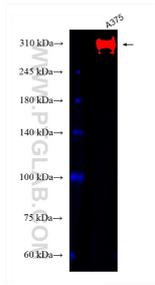
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



A375 cells were subjected to SDS PAGE followed by western blot with CL488-55027 (CSPG4 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.