
Product Name: KD-Validated Chondroitin Sulfate Proteoglycan 4 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01400**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,M
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 250.5kDa

Antigen Information

Gene Name	CSPG4
Alternative Names	CSPG4; Chondroitin Sulfate Proteoglycan 4; MCSP; Melanoma-Associated Chondroitin Sulfate Proteoglycan; MEL-CSPG; HMW-MAA; CSPG4A ; MCSPG; MSK16; NG2; Chondroitin Sulfate Proteoglycan 4 (Melanoma-Associated); Melanoma Chondroitin Sulfate Proteoglycan; Chondroitin Sulfate Proteoglycan NG2; EC 2.7.8; EC 3.6.3
Gene ID	1464.0
SwissProt ID	Q6UVK1
Immunogen	A synthesized peptide derived from human NG2

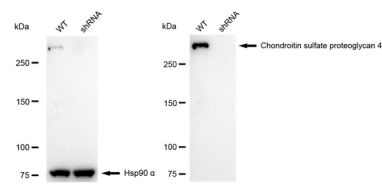
Background

A human melanoma-associated chondroitin sulfate proteoglycan plays a role in stabilizing cell-substratum interactions during early events of melanoma cell spreading on endothelial basement membranes. CSPG4 represents an integral membrane chondroitin sulfate proteoglycan expressed by human malignant melanoma cells. [provided by RefSeq, Jul 2008]

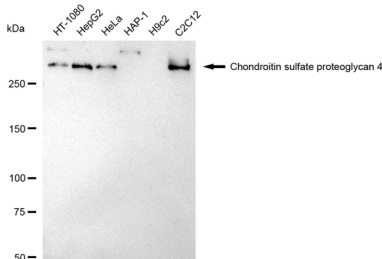
Research Area

Neuroscience, Tags & Cell Markers, Cancer

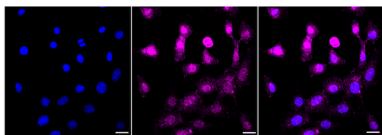
Image Data



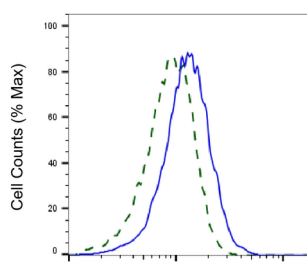
Western blotting analysis using chondroitin sulfate proteoglycan 4 antibody (KVA01400). Chondroitin sulfate proteoglycan 4 expression in wild type (WT) and chondroitin sulfate proteoglycan 4 (CSPG4) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with chondroitin sulfate proteoglycan 4 antibody (KVA01400, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Chondroitin sulfate proteoglycan 4 antibody (KVA01400). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Chondroitin sulfate proteoglycan 4 antibody (KVA01400, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.

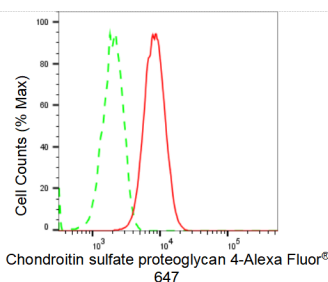


Immunocytochemical staining of C2C12 cells with Chondroitin sulfate proteoglycan 4 antibody (KVA01400, 1:1,000). Nuclei were stained blue with DAPI; Chondroitin sulfate proteoglycan 4 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Validation of Chondroitin sulfate proteoglycan 4 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Chondroitin sulfate proteoglycan 4 antibody (KVA01400, 1:2,000) and analyzed using BD flow cytometer.

Chondroitin sulfate proteoglycan 4-Alexa Fluor® 647



Flow cytometric analysis of Chondroitin sulfate proteoglycan 4 expression in C2C12 cells using Chondroitin sulfate proteoglycan 4 antibody (KVA01400, 1:2,000). Green, isotype control; red, Chondroitin sulfate proteoglycan 4.