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NG2/CSPG4 Rabbit mAb

Catalog No.: A24955 Recombinant 1 Publications

Basic Information

Observed MW
450kDa

Calculated MW
251kDa

Category
Primary antibody

Applications
ELISA,IHC-P,IF/ICC,FC

Cross-Reactivity
Human, Mouse

CloneNo number
ARC64580

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.

Recommended Dilutions

IHC-P	1:50 - 1:200
IF/ICC	1:50 - 1:200
FC	1:500 - 1:1000

Immunogen Information

Gene ID
1464

Swiss Prot
Q6UVK1

Immunogen
Recombinant fusion protein containing a sequence corresponding to amino acids 1583-2224 of human NG2 (NP_001888.2).

Synonyms
NG2; MCSP; MCSPG; MSK16; CSPG4A; HMW-MAA; MEL-CSPG; NG2/CSPG4

Contact

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Product Information

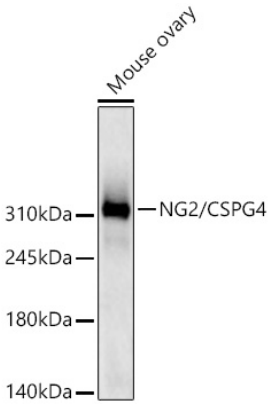
Source
Rabbit

Isotype
IgG

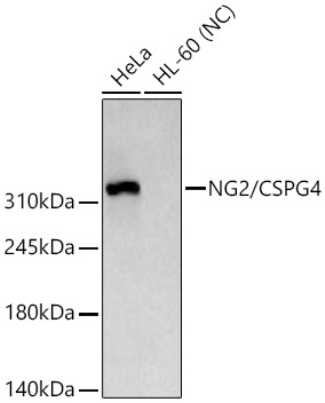
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

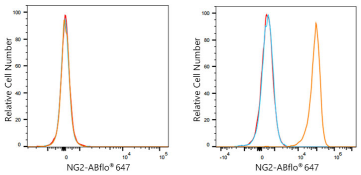
Validation Data



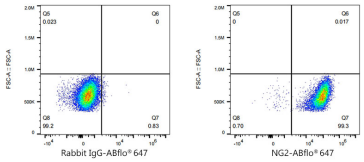
Western blot analysis of lysates from Mouse ovary using NG2/CSPG4 Rabbit mAb (A24955) at 1:1000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 60s.



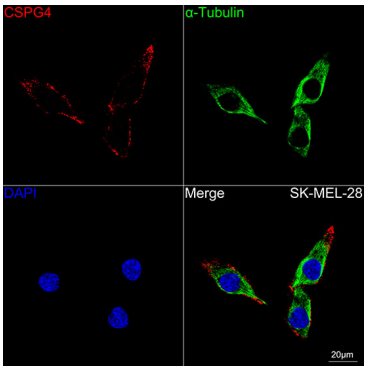
Western blot analysis of various lysates using NG2/CSPG4 Rabbit mAb (A24955)at 1:1000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Negative control (NC): HL-60
Exposure time: 10s.



Flow cytometry: 1X10^6 Jurkat cells (negative control,left) and SK-MEL-28 cells (right) were surface-stained with NG2/CSPG4 Rabbit mAb (A24955,2 µg/mL,orange line) or ABflo® 647 Rabbit IgG isotype control (A22070,5 µl/Test,blue line), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining. Non-fluorescently stained cells were used as blank control (red line).

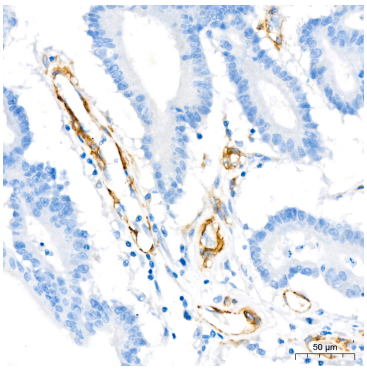


Flow cytometry: 1X10^6 SK-MEL-28 cells were surface-stained with ABflo® 647 Rabbit IgG isotype control (A22070,5 µl/Test,left) or NG2/CSPG4 Rabbit mAb (A24955,2 µg/mL,right).

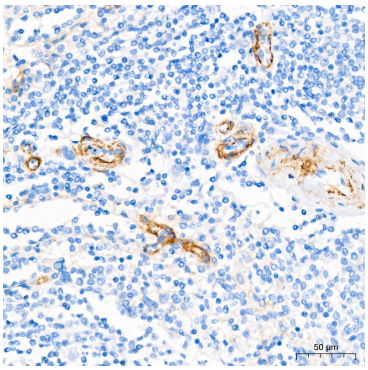


Confocal imaging of SK-MEL-28 cells using NG2/CSPG4 Rabbit mAb (A24955, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.

Validation Data



Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using NG2/CSPG4 Rabbit mAb (A24955) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human spleen tissue using NG2/CSPG4 Rabbit mAb (A24955) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.