Product Data Sheet
NG2/CSPG4 Rabbit Monoclonal Antibody

Product name:	NG2/CSPG4 Rabbit Monoclonal Antibody
Cat number:	MAB-94805
Conjugate:	Unconjugated
Host:	Rabbit
Size:	100 ug
Synonyms:	NG2; MCSP; MCSPG; MSK16; CSPG4A; HMW-MAA; MEL-CSPG; NG2/CSPG4
Clone:	ARC64580
Concentration:	1mg/ml
Isotype:	IgG
Immunogen:	Recombinant protein.This information is considered to be commercially sensitive.
Reactivity:	Human,Mouse
Applications:	WB 1:1000 - 1:2000 IF-P 1:200 - 1:1000 IHC-P 1:500 - 1:2000 FC 1:500 - 1:1000 ELISA Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.
Molecular Weight:	450kDa
Purification:	Affinity purification
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.
Form:	liquid
Buffer:	PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.
Storage:	Store at -20℃. Avoid freeze / thaw cycles.

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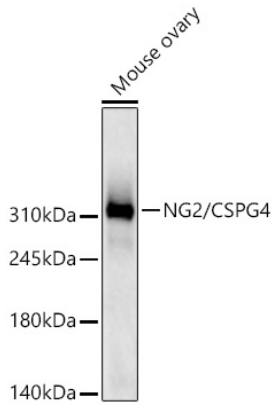
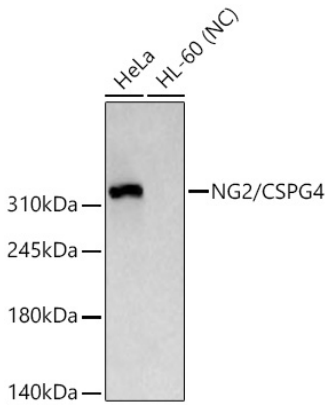
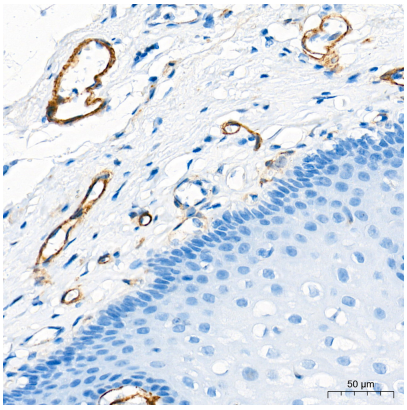


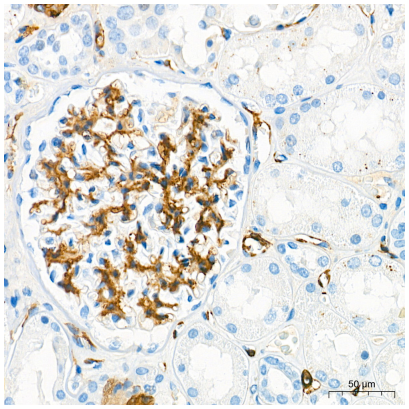
Western blot analysis of lysates from Mouse ovary using NG2/CSPG4 Rabbit mAb at 1:1000 dilution incubated overnight at 4℃. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL West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



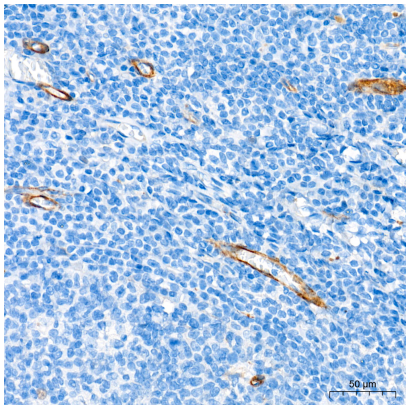
Western blot analysis of various lysates using NG2/CSPG4 Rabbit mAb at 1:1000 dilution incubated overnight at 4℃. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL West Pico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



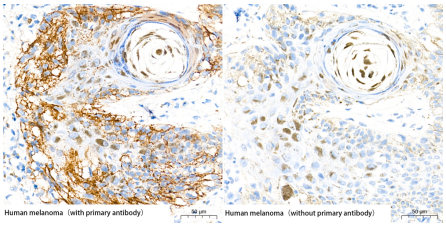
Immunohistochemistry analysis of paraffin-embedded Human esophagus tissue using NG2/CSPG4 Rabbit mAb at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human kidney tissue using NG2/CSPG4 Rabbit mAb at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using NG2/CSPG4 Rabbit mAb at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human malignant melanoma positive control and blank control tissue using NG2/CSPG4 Rabbit mAb at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

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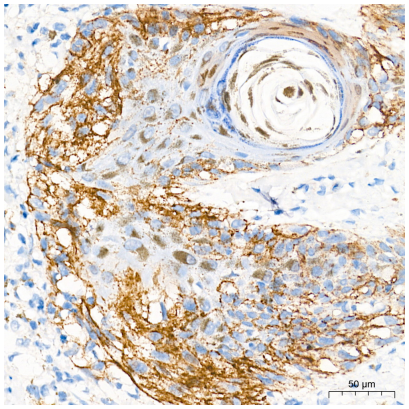
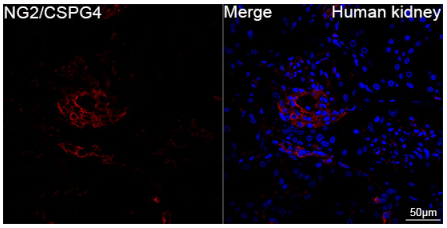
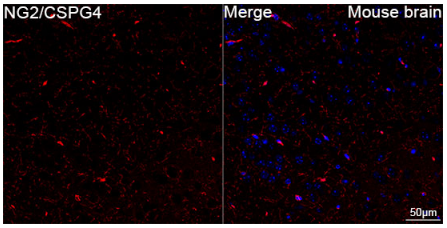


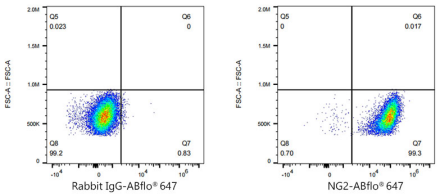
Immunohistochemistry analysis of paraffin-embedded Human malignant melanoma tissue using NG2/CSPG4 Rabbit mAb at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Confocal imaging of paraffin-embedded Human kidney tissue using NG2/CSPG4 Rabbit mAb (dilution 1:800) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Confocal imaging of paraffin-embedded Mouse brain tissue using NG2/CSPG4 Rabbit mAb (dilution 1:800) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



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

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