

# NG2/CSPG4 Rabbit mAb

Catalog No.: A24955 **Recombinant** **5 Publications**

## Basic Information

### Observed MW

450 kDa

### Calculated MW

251 kDa

### Category

Primary antibody

### Applications

WB,IF-P,IHC-P,mIHC,FC,ELISA

### 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

**WB** 1:1000 - 1:2000

**IF-P** 1:200 - 1:1000

**IHC-P** 1:500 - 1:2000

**mIHC** 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.

## Immunogen Information

### Gene ID

1464

### Swiss Prot

Q6UVK1

### Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

### Synonyms

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

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

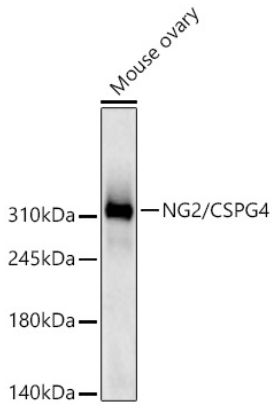
Affinity purification

### Storage

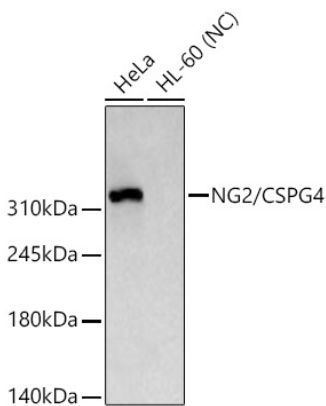
Store at -20°C. Avoid freeze / thaw cycles.

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.

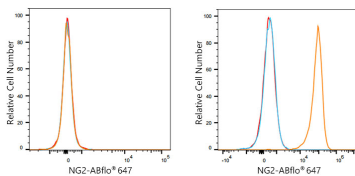
## Validation Data



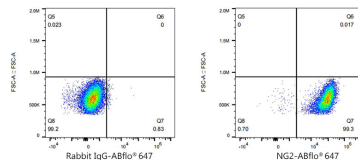
Western blot analysis of lysates from Mouse ovary using NG2/CSPG4 Rabbit mAb (A24955) at 1:1000 dilution incubated overnight at 4°C.  
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 25 µg per lane.  
 Blocking buffer: 3% nonfat dry milk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



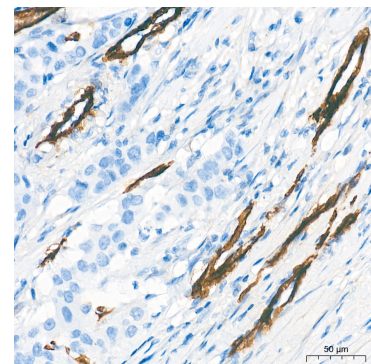
Western blot analysis of various lysates using NG2/CSPG4 Rabbit mAb (A24955) at 1:1000 dilution incubated overnight at 4°C.  
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 25 µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.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



Flow cytometry:  $1 \times 10^6$  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).

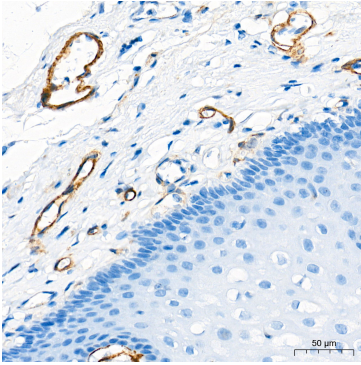


Flow cytometry:  $1 \times 10^6$  SK-MEL-28 cells were surface-stained with ABflo® 647 Rabbit IgG isotype control (A22070, 5 µl/Test, left) or NG2/CSPG4 Rabbit mAb (A24955, 2 µg/mL, right).

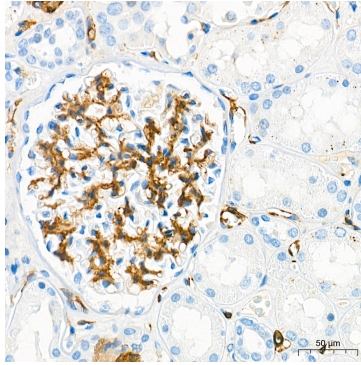


Immunohistochemistry analysis of paraffin-embedded Human breast cancer tissue using NG2/CSPG4 Rabbit mAb (A24955) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

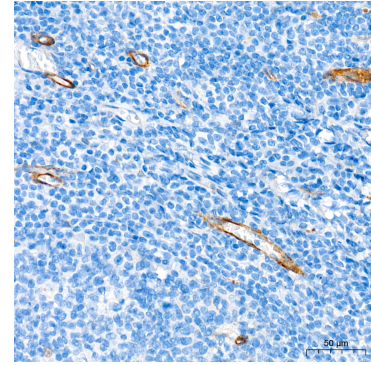
## Validation Data



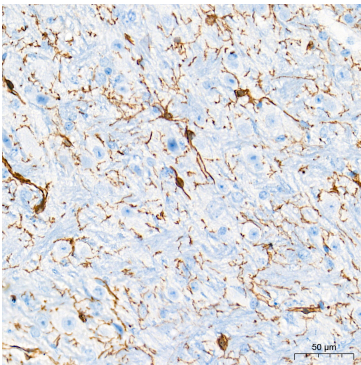
Immunohistochemistry analysis of paraffin-embedded Human esophagus tissue using NG2/CSPG4 Rabbit mAb (A24955) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



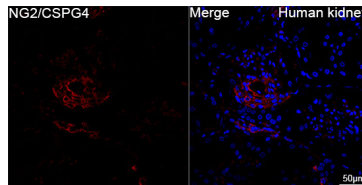
Immunohistochemistry analysis of paraffin-embedded Human kidney tissue using NG2/CSPG4 Rabbit mAb (A24955) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



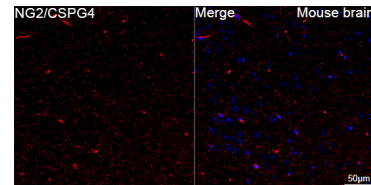
Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using NG2/CSPG4 Rabbit mAb (A24955) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



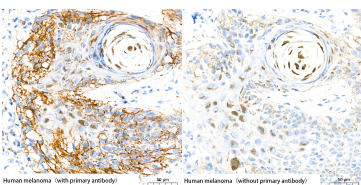
Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using NG2/CSPG4 Rabbit mAb (A24955) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



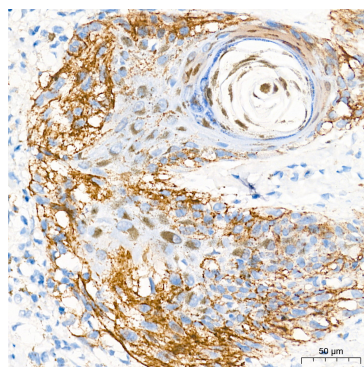
Confocal imaging of paraffin-embedded Human kidney tissue using NG2/CSPG4 Rabbit mAb (A24955, dilution 1:800) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



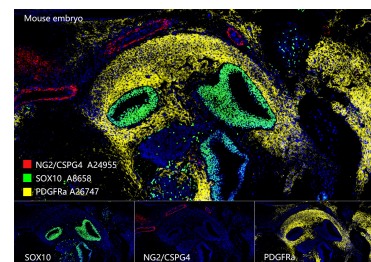
Confocal imaging of paraffin-embedded Mouse brain tissue using NG2/CSPG4 Rabbit mAb (A24955, dilution 1:800) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Immunohistochemistry analysis of paraffin-embedded Human malignant melanoma [positive control and blank control] tissue using NG2/CSPG4 Rabbit mAb (A24955) 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 tissue using NG2/CSPG4 Rabbit mAb (A24955) 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.



The multiplex IHC analysis on paraffin-embedded Mouse embryo tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : SOX10 Rabbit mAb (A8658, 1:400) with TSA-TYR-520 (Green), and NG2/CSPG4 Rabbit mAb (A24955, 1:1000) with TSA-TYR-570 (Red), and PDGFRα Rabbit mAb (A26747, 1:1000) with TSA-TYR-690

## Validation Data

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(Yellow). DAPI (Blue) was used for nuclear staining. Prior to multiplex IHC staining, high-pressure antigen retrieval was performed using 0.01M citrate buffer at pH 6.0. The analysis was completed using a 30x objective lens.