

## Rabbit CSPG5 Polyclonal Antibody | anti-CSPG5 antibody

CSPG5 Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                 |
|-----------|--------|-------------------|--------------------------------------------------------------|
| AAA324611 | Rabbit | Human, Mouse, Rat | ELISA, Immunocytochemistry, Immunofluorescence, Western Blot |

### PRODUCT SYNONYMS

CSPG5; Polyclonal Antibody; CSPG5 Antibody; Acidic leucine rich EGF like domain containing brain protein; Acidic leucine-rich EGF-like domain-containing brain protein; Caleb; Chondroitin sulfate proteoglycan 5 (neuroglycan C); Chondroitin sulfate proteoglycan 5; CSPG5\_HUMAN; MGC44034; Neuroglycan C; Ngc; OTTHUMP00000164796; OTTHUMP00000164797; OTTHUMP00000210429; anti-CSPG5 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                    |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                                                             |
| Reactivity                                      | Human, Mouse, Rat                                                                                                                                                                                                                                  |
| Clonality                                       | Polyclonal                                                                                                                                                                                                                                         |
| Isotype                                         | IgG                                                                                                                                                                                                                                                |
| Specificity                                     | CSPG5 antibody detects endogenous levels of total CSPG5                                                                                                                                                                                            |
| Purity/Purification                             | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.                                                                                                                                                      |
| Form/Format                                     | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                                                                      |
| Concentration                                   | 1mg/ml (varies by lot)                                                                                                                                                                                                                             |
| Sequence Length                                 | 566                                                                                                                                                                                                                                                |
| Applicable Applications for anti-CSPG5 antibody | ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)                                                                                                                                                                       |
| Immunogen                                       | A synthesized peptide                                                                                                                                                                                                                              |
| Subcellular Location                            | Cell Membrane. Endoplasmic Reticulum Membrane. Golgi Apparatus Membrane. In neurons, localizes to synaptic junctions (By similarity). Also detected in the endoplasmic reticulum and the golgi (By similarity). Partially enriched in lipid rafts. |
| Tissue Specificity                              | Restricted to brain (at protein level).                                                                                                                                                                                                            |
| Predicted Cross Reactivity                      | <b>Rabbit, Dog</b>                                                                                                                                                                                                                                 |
| Similarity                                      | Rabbit (82%), Dog (82%)                                                                                                                                                                                                                            |
| Conjugation                                     | Unconjugated                                                                                                                                                                                                                                       |
| Preparation and Storage                         | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                                                                                                                                  |

IMAGES



WB (Western Blot)

Western blot analysis of extracts from COLO cells, using CSPG5 antibody., The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA324611 staining COLO205 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CSPG5 antibody | Function: May function as a growth and differentiation factor involved in neuritogenesis. May induce ERBB3 activation.<br>Subunit Structure: Binds TNR and probably TNC (By similarity). Interacts with ERBB3 and GOPC.<br>Post-translational Modifications: N-glycosylated. O-glycosylated; contains chondroitin sulfate glycans. Part-time proteoglycan, expressed in part as a proteoglycan exhibiting chondroitin sulfate glycans and in part as a non-proteoglycan form. The relative amount of both forms depends on tissues and tissues maturation (By similarity).<br>Phosphorylated; in intracellular and extracellular parts. |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                              |
|----------------------------------|----------------------------------------------|
| NCBI GI #                        | 332635065                                    |
| NCBI GeneID                      | 10675                                        |
| NCBI Accession #                 | NP_001193872.1                               |
| NCBI GenBank Nucleotide #        | NM_001206943.1                               |
| UniProt Accession #              | O95196; Q71M39; Q71M40                       |
| Molecular Weight                 | Observed: 60 kD<br>Predicted: 61 kDa         |
| NCBI Official Full Name          | chondroitin sulfate proteoglycan 5 isoform 3 |
| NCBI Official Synonym Full Names | chondroitin sulfate proteoglycan 5           |
| NCBI Official Symbol             | CSPG5                                        |
| NCBI Official Synonym Symbols    | NGC                                          |
| NCBI Protein Information         | chondroitin sulfate proteoglycan 5           |
| UniProt Protein Name             | Chondroitin sulfate proteoglycan 5           |
| UniProt Gene Name                | CSPG5                                        |
| UniProt Synonym Gene Names       | CALEB; NGC                                   |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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