

Rabbit Anti-Neurocan/AF350 Conjugated antibody

SL1055R-AF350

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| Product Name | Anti-Neurocan/AF350 |
| Chinese Name | AF350 标记的神经粘蛋白抗体 |
| Alias | Chondroitin sulfate proteoglycan 3; Cspg3; NCAN; NEUR; Neurocan core protein; NCAN_HUMAN. |
| Research Area | Developmental biology Neurobiology |
| Immunogen Species | Rabbit |
| Clonality | Polyclonal |
| React Species | Mouse,Rat(predicted:Human) IF=1:100-500 |
| Applications | not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. |
| Molecular weight | 140kDa |
| Form | Lyophilized or Liquid |
| Concentration | 1mg/ml |
| immunogen | KLH conjugated synthetic peptide derived from human Neurocan |
| Lsotype | IgG |
| Purification | affinity purified by Protein A |
| Storage Buffer | 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol |
| Storage | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| Product Detail | background: Neurocan is the major soluble chondroitin sulfate proteoglycan in the brain. It is thought to play a functional role in axonal growth and guidance and in the establishment of specific neural pathways during embryonic brain development. Neurocan expression in the brain is developmentally regulated. Early on the major form of neurocan consists of a 245kD core protein with |

approximately two chondroitin sulfate glycosaminoglycan chains of 22kD each. Later neurocan comprises a 180kD core protein Both forms of neurocan contain only chondroitin 4-sulfate glycosaminoglycan chains. By virtue of their high expression at sites of neural damage and trauma, chondroitin sulfate proteoglycans, including neurocan, are thought to inhibit successful nerve regeneration. Alternative names: Chondroitin sulfate proteoglycan 3; Cspg3; NCAN; NEUR; Neurocan core protein.

Function:

May modulate neuronal adhesion and neurite growth during development by binding to neural cell adhesion molecules (NG-CAM and N-CAM).
Chondroitin sulfate proteoglycan; binds to hyaluronic acid.

Subcellular Location:

Secreted.

Tissue Specificity:

Brain.

Similarity:

Belongs to the aggrecan/versican proteoglycan family.

Contains 1 C-type lectin domain.

Contains 2 EGF-like domains.

Contains 1 Ig-like V-type (immunoglobulin-like) domain.

Contains 2 Link domains.

Contains 1 Sushi (CCP/SCR) domain.

Database links:

[Entrez Gene: 1463](#) Human

[Entrez Gene: 58982](#) Rat

[Omim: 600826](#) Human

[SwissProt: O14594](#) Human

[SwissProt: P55067](#) Rat

[Unigene: 169047](#) Human

[Unigene: 10177](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in

human, therapeutic or diagnostic applications.

Neurobiology 相关蛋白 (Neurobiology)

神经粘蛋白(Neurocan)是由神经元分泌的特异性蛋白质,广泛分布于神经系统,可与神经元 The cell membrane 上特异性受体神经粘附分子和神经元胶质细胞黏附分子结合,调节细胞连接,影响轴突生长.而在中枢神经系统损伤后,Neurocan 的表达增加,并抑制轴突生长.Neurocan 在中枢神经系统的形成和损伤后的修复都扮演着重要的角色.