

Rabbit Anti-Neurocan antibody

SL1055R

Product Name	Neurocan
Chinese Name	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	Human, Mouse, Rat, IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	140kDa
Cellular localization	Secretory protein
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human Neurocan: 1185-1257/1257
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed
Product	Neurocan is the major soluble chondroitin sulfate proteoglycan in the brain. It is thought to

Detail

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.

SWISS:

P55066

Gene ID:

1463

Database links:

[Entrez Gene: 1463](#) Human

[Entrez Gene: 58982](#) Rat

[Omim: 600826](#) Human

[SwissProt: O14594](#) Human

[SwissProt: P55067](#) Rat

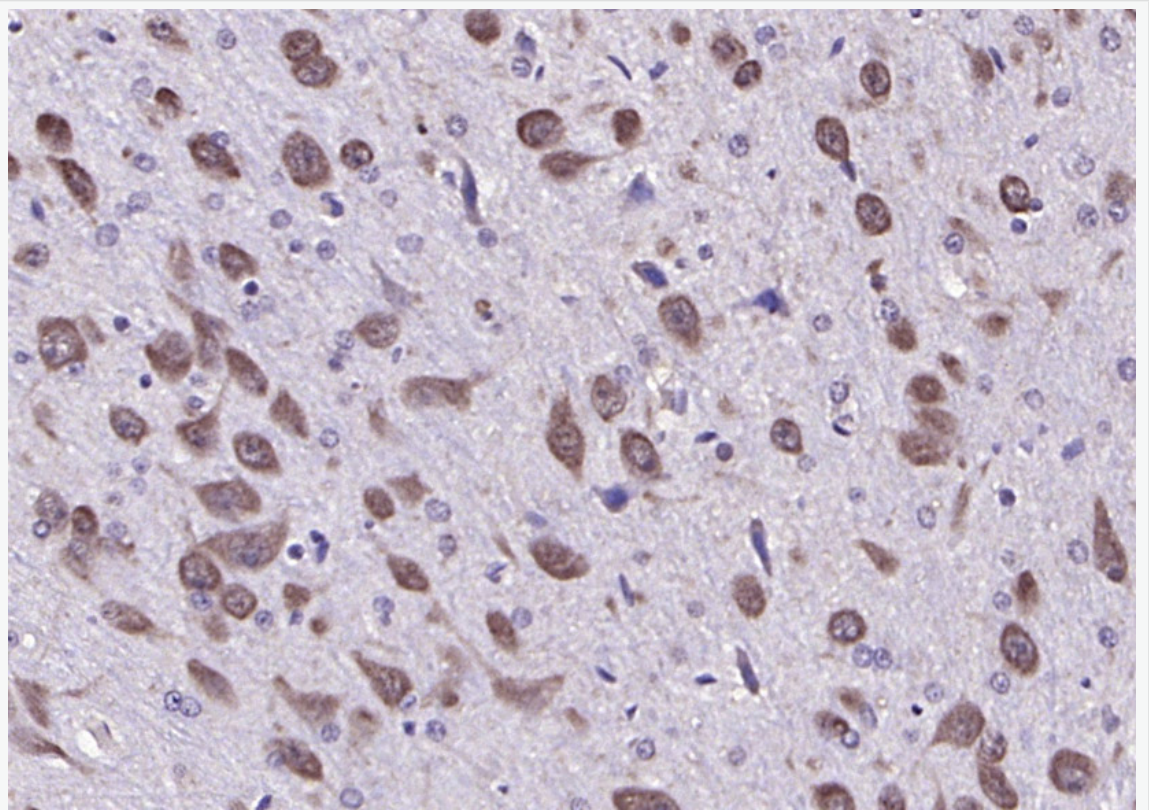
[Unigene: 169047](#) Human

[Unigene: 10177](#) Rat

Neurobiology 相关蛋白 (Neurobiology)

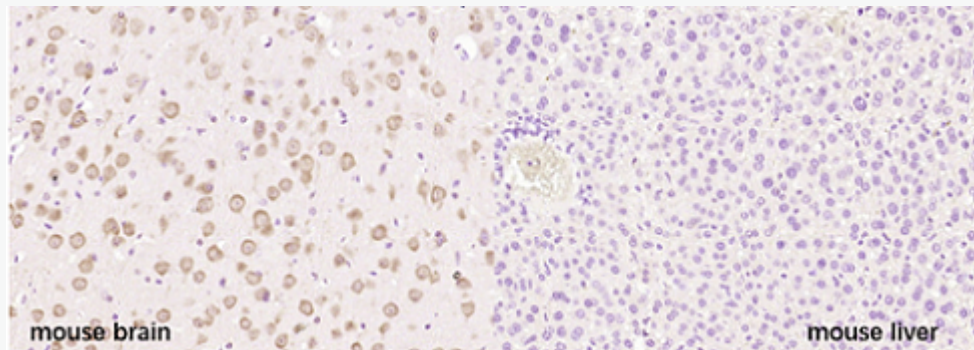
神经粘蛋白(Neurocan)是由神经元分泌的特异性蛋白质,广泛分布于神经系统,可与神经元 The cell membrane 上特异性受体神经粘附分子和神经元胶质细胞黏附分子结合,调节细胞连接,影响轴突生长.而在中枢神经系统损伤后,Neurocan 的表达增加,并抑制轴突生长.Neurocan 在中枢神经系统的形成和损伤后的修复都扮演着重要的角色.

Product Picture

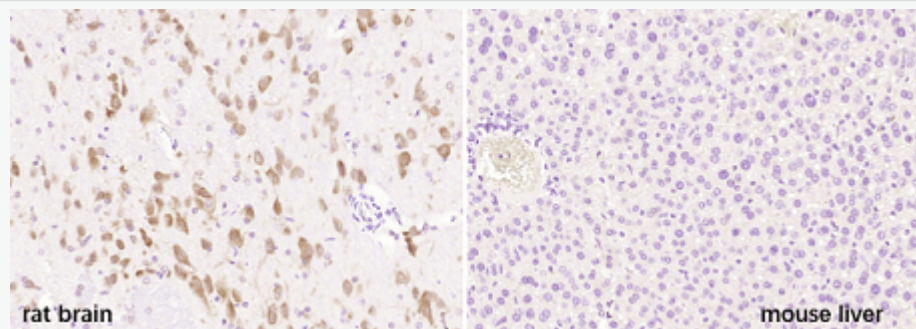


Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Neurocan) Polyclonal Antibody, Unconjugated

(SL1055R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

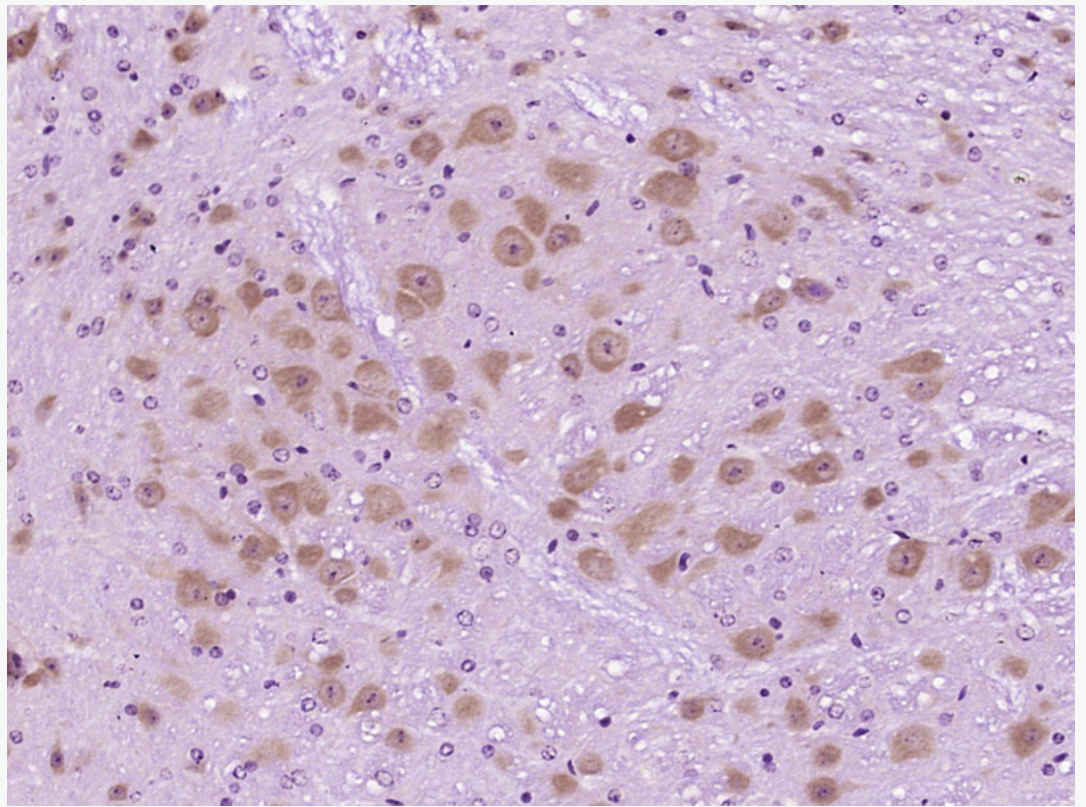


Positive sample: Paraformaldehyde-fixed, paraffin embedded (mouse brain); Negative sample: Paraformaldehyde-fixed, paraffin embedded (mouse liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Neurocan) Polyclonal Antibody, Unconjugated (SL1055R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



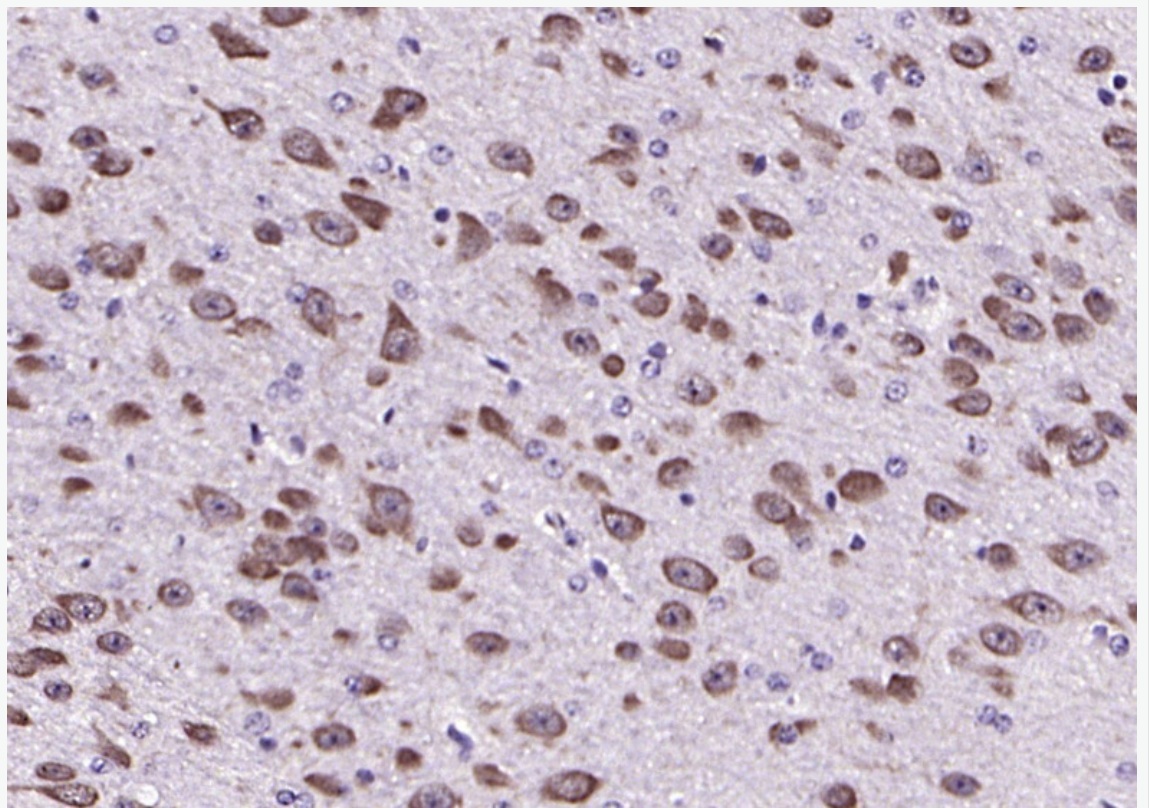
Positive sample: Paraformaldehyde-fixed, paraffin embedded (rat brain); Negative

sample: Paraformaldehyde-fixed, paraffin embedded (mouse liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Neurocan) Polyclonal Antibody, Unconjugated (SL1055R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

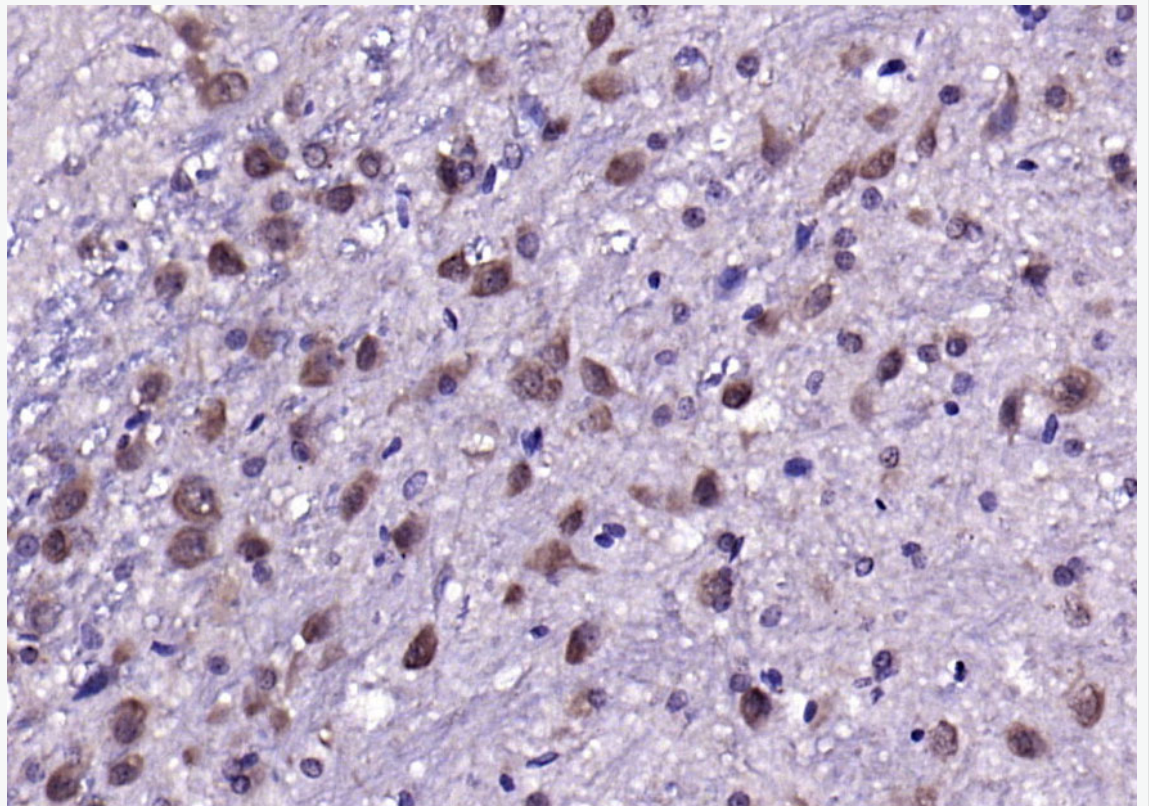


Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for

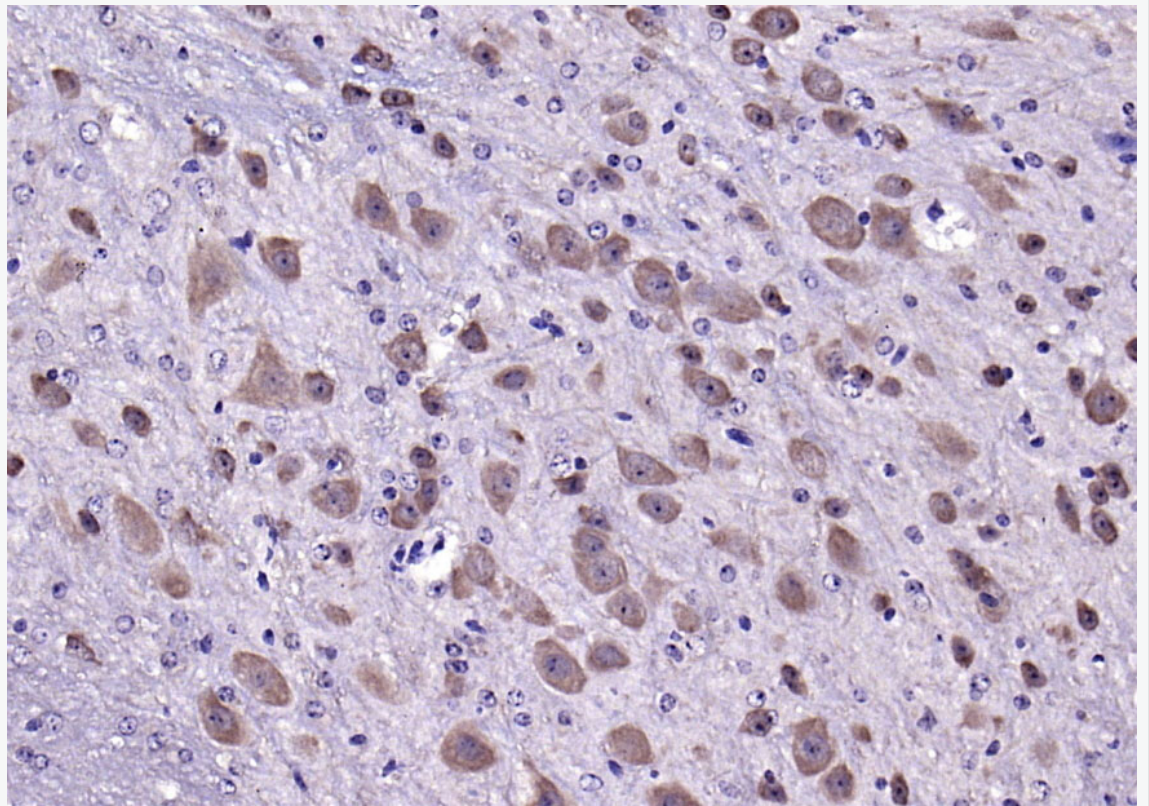
30min; Antibody incubation with (Neurocan) Polyclonal Antibody, Unconjugated (SL1055R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Neurocan) Polyclonal Antibody, Unconjugated (SL1055R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Neurocan) Polyclonal Antibody, Unconjugated (SL1055R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Neurocan) Polyclonal Antibody, Unconjugated (SL1055R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.