

Netrin G1 ligand Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58495**Specification****Netrin G1 ligand Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	O9HCJ2
Reactivity	Rat, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	70 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Netrin G1 ligand
Epitope Specificity	561-640/640
Isotype	IgG
Purity	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane.
SIMILARITY	Contains 1 Ig-like C2-type (immunoglobulin-like) domain.Contains 9 LRR (leucine-rich) repeats.Contains 1 LRRCT domain.Contains 1 LRRNT domain. Interacts with NTNG1 and WHRN.
SUBUNIT	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Important Note	

Background Descriptions

NGL-1 is a single pass type I membrane protein that acts as a cell adhesion molecule. It contains nine leucine-rich repeats (LRR) and one Ig-like C2-type domain. NGL-1 is predominantly expressed in the striatum and the cerebral cortex of both the embryonic and adult brain. NGL-1 specifically interacts with Netrin G1 (a molecule involved in axon guidance in the developing central nervous system) via its LRR region. NGL-1 plays a role in the regulation of neurite outgrowth of developing thalamic neurons. Soluble NGL-1 inhibits thalamic axon outgrowth while NGL-1 that is bound to the surface of developing thalamocortical axons stimulates growth. NGL-1 also interacts with Whirlin possibly stabilizing interstereociliar links.

Netrin G1 ligand Polyclonal Antibody - Additional Information**Gene ID** 57689**Other Names**

Leucine-rich repeat-containing protein 4C, Netrin-G1 ligand, NGL-1, LRRC4C, KIAA1580, NGL1

Target/Specificity

Highly expressed in the cerebral cortex, including frontal, parietal and occipital lobes. Putamen, amygdala, hippocampus and medulla oblongata show moderate expression. Caudate nucleus and thalamus express small amounts, whereas other brain regions show very weak or no expression.

Dilution

WB~~1:1000<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>E~~N/A

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Netrin G1 ligand Polyclonal Antibody - Protein Information

Name LRRC4C

Synonyms KIAA1580, NGL1

Function

May promote neurite outgrowth of developing thalamic neurons.

Cellular Location

Postsynaptic cell membrane; Single-pass type I membrane protein

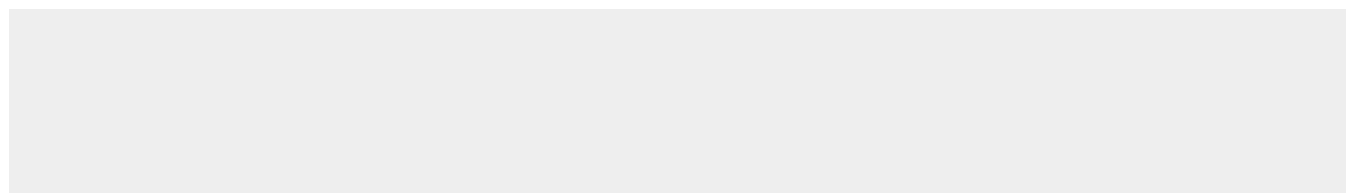
Tissue Location

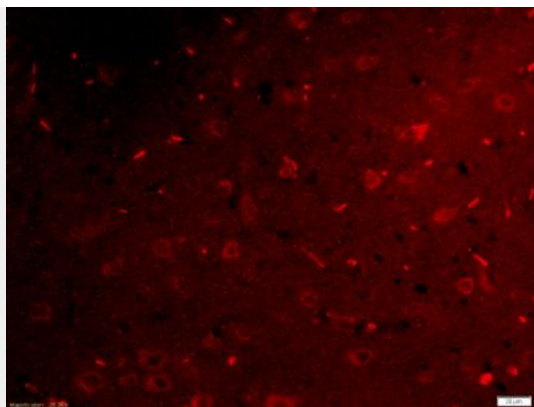
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Netrin G1 ligand Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

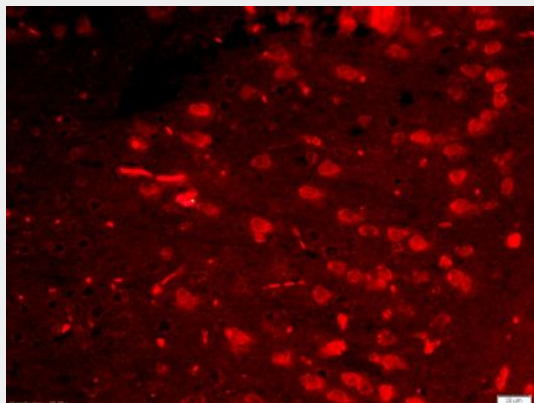
Netrin G1 ligand Polyclonal Antibody - Images



Tissue/cell: rat brain tissue;4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

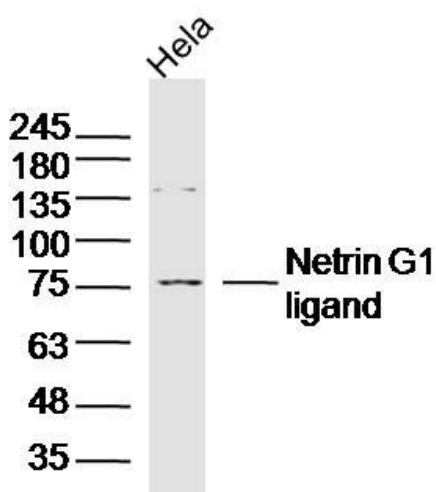
Incubation: Anti-NGL1 Polyclonal Antibody, Unconjugated(bs-6710R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(bs-0295G-Cy3)used at 1:200 dilution for 40 minutes at 37°C. DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei



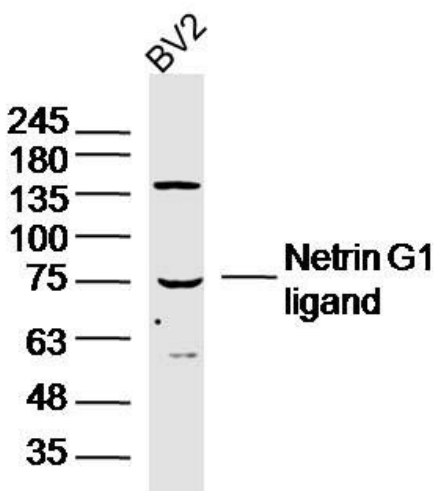
Tissue/cell: mouse brain tissue;4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-NGL1 Polyclonal Antibody, Unconjugated(bs-6710R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(bs-0295G-Cy3)used at 1:200 dilution for 40 minutes at 37°C. DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei



Sample: HeLa Cell (Human) Lysate at 40 ug
 Primary: Anti- Netrin G1 ligand (bs-6710R) at 1/300 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 70 kD
 Observed band size: 76 kD



Sample: BV2 Cell (Mouse) Lysate at 40 ug
 Primary: Anti- Netrin G1 ligand (bs-6710R) at 1/300 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 70 kD
 Observed band size: 76 kD