

# Netrin G1 ligand Rabbit pAb

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Catalog # AP58495

## Product Information

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<b>Application</b>	WB, IHC-P, IHC-F, IF
<b>Primary Accession</b>	<a href="#">Q9HCJ2</a>
<b>Reactivity</b>	Human, Mouse, Rat
<b>Predicted</b>	Dog, Horse, Rabbit
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	71950
<b>Physical State</b>	Liquid
<b>Immunogen</b>	KLH conjugated synthetic peptide derived from human Netrin G1 ligand
<b>Epitope Specificity</b>	561-640/640
<b>Isotype</b>	IgG
<b>Purity</b>	affinity purified by Protein A
<b>Buffer</b>	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
<b>SUBCELLULAR LOCATION</b>	Membrane.
<b>SIMILARITY</b>	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.
<b>SUBUNIT</b>	
<b>Important Note</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>Background Descriptions</b>	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.

## Additional Information

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<b>Gene ID</b>	57689
<b>Other Names</b>	Leucine-rich repeat-containing protein 4C, Netrin-G1 ligand, NGL-1, LRRC4C, KIAA1580, NGL1
<b>Target/Specificity</b>	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.

<b>Dilution</b>	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
<b>Storage</b>	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.

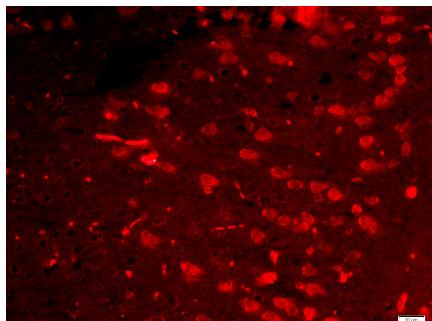
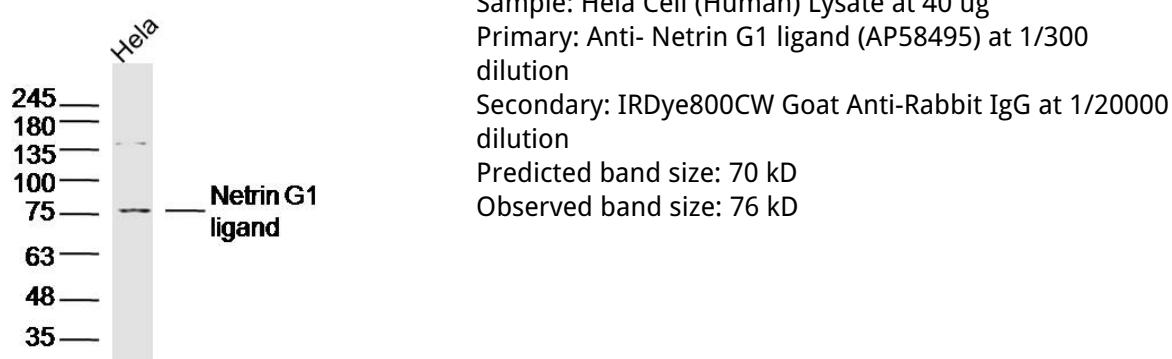
## Protein Information

<b>Name</b>	LRRC4C
<b>Synonyms</b>	KIAA1580, NGL1
<b>Function</b>	May promote neurite outgrowth of developing thalamic neurons.
<b>Cellular Location</b>	Postsynaptic cell membrane; Single-pass type I membrane protein
<b>Tissue Location</b>	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.

## Background

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.

## Images



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(AP58495) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(AP58495-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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.