

**LINGO-1 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP22457a****Specification**

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**LINGO-1 Antibody - Product Information**

Application	WB,E
Primary Accession	<a href="#">O96FE5</a>
Other Accession	<a href="#">O9N008</a> , <a href="#">O9D1T0</a> , <a href="#">O5RDJ4</a>
Reactivity	Mouse
Predicted	Monkey
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit Ig
Calculated MW	69876

**LINGO-1 Antibody - Additional Information****Gene ID** 84894**Other Names**

Leucine-rich repeat and immunoglobulin-like domain-containing nogo receptor-interacting protein 1, Leucine-rich repeat and immunoglobulin domain-containing protein 1, Leucine-rich repeat neuronal protein 1, Leucine-rich repeat neuronal protein 6A, LINGO1, LERN1, LRRN6A

**Target/Specificity**

This LINGO-1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between amino acids from the human region of human LINGO-1.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

LINGO-1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**LINGO-1 Antibody - Protein Information****Name** LINGO1**Synonyms** LERN1, LRRN6A

**Function** Functional component of the Nogo receptor signaling complex (RTN4R/NGFR) in RhoA activation responsible for some inhibition of axonal regeneration by myelin-associated factors (PubMed:[14966521](#), PubMed:[15694321](#)). Is also an important negative regulator of oligodendrocyte differentiation and axonal myelination (PubMed:[15895088](#)). Acts in conjunction with RTN4 and RTN4R in regulating neuronal precursor cell motility during cortical development (By similarity).

#### Cellular Location

Cell membrane {ECO:0000250|UniProtKB:Q9D1T0}; Single-pass type I membrane protein {ECO:0000250|UniProtKB:Q9D1T0}

#### Tissue Location

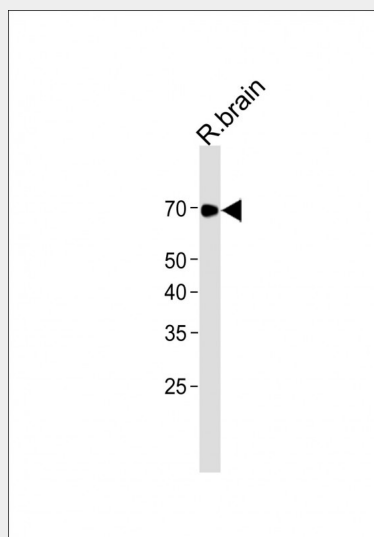
Expressed exclusively in the central nervous system. Highest level in the in amygdala, hippocampus, thalamus and cerebral cortex. In the rest of the brain a basal expression seems to be always present. Up-regulated in substantia nigra neurons from Parkinson disease patients.

### LINGO-1 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](#)

### LINGO-1 Antibody - Images



All lanes: Anti-LINGO-1 Antibody at 1:1000 dilution + Rat brain lysate Lysates/proteins at 20  $\mu$ g per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 70 KDa Blocking/Dilution buffer: 5% NFDM/TBST.

### LINGO-1 Antibody - Background

Functional component of the Nogo receptor signaling complex (RTN4R/NGFR) in RhoA activation responsible for some inhibition of axonal regeneration by myelin-associated factors (PubMed:14966521, PubMed:15694321). Is also an important negative regulator of oligodendrocyte differentiation and axonal myelination (PubMed:15895088). Acts in conjunction with RTN4 and RTN4R in regulating neuronal precursor cell motility during cortical development (By similarity).

#### **LINGO-1 Antibody - References**

Carim-Todd L.,et al.Eur. J. Neurosci. 18:3167-3182(2003).  
Clark H.F.,et al.Genome Res. 13:2265-2270(2003).  
Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.  
Bechtel S.,et al.BMC Genomics 8:399-399(2007).