

# LINGO1 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7284a

## Product Information

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<b>Application</b>	WB, IHC-P, E
<b>Primary Accession</b>	<a href="#">Q96FE5</a>
<b>Other Accession</b>	<a href="#">Q9D1T0</a> , <a href="#">Q9N008</a> , <a href="#">Q50L44</a>
<b>Reactivity</b>	Human
<b>Predicted</b>	Chicken, Monkey, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB8949
<b>Calculated MW</b>	69876
<b>Antigen Region</b>	62-92

## Additional Information

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<b>Gene ID</b>	84894
<b>Other Names</b>	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
<b>Target/Specificity</b>	This LINGO1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 62-92 amino acids from the N-terminal region of human LINGO1.
<b>Dilution</b>	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
<b>Storage</b>	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.
<b>Precautions</b>	LINGO1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	LINGO1
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<b>Synonyms</b>	LERN1, LRRN6A
<b>Function</b>	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: <a href="#">14966521</a> , PubMed: <a href="#">15694321</a> ). Is also an important negative regulator of oligodendrocyte differentiation and axonal myelination (PubMed: <a href="#">15895088</a> ). Acts in conjunction with RTN4 and RTN4R in regulating neuronal precursor cell motility during cortical development (By similarity).
<b>Cellular Location</b>	Cell membrane {ECO:0000250 UniProtKB:Q9D1T0}; Single-pass type I membrane protein {ECO:0000250 UniProtKB:Q9D1T0}
<b>Tissue Location</b>	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.

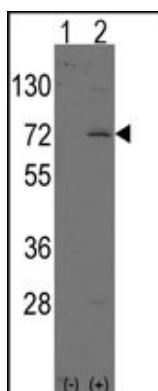
## Background

LINGO1 is a functional component of the Nogo receptor signaling complex (RTN4R/NGFR) in RhoA activation responsible for some inhibition of axonal regeneration by myelin-associated factors. It is also an important negative regulator of oligodendrocyte differentiation and axonal myelination.

## References

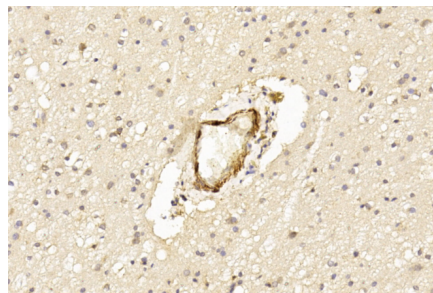
Inoue,H., Proc. Natl. Acad. Sci. U.S.A. 104 (36), 14430-14435 (2007)  
 Satoh,J., Neuropathol. Appl. Neurobiol. 33 (1), 99-107 (2007)  
 Mosyak,L., J. Biol. Chem. 281 (47), 36378-36390 (2006)  
 Mi,S., Nat. Neurosci. 7 (3), 221-228 (2004)

## Images



Western blot analysis of LINGO1 (arrow) using rabbit polyclonal LINGO1 Antibody (N-term) (Cat.#AP7284a).293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the LINGO1 gene (Lane 2) (Origene Technologies).

Formalin-fixed and paraffin-embedded human brain tissue reacted with LINGO1 Antibody (N-term) (Cat.#AP7284a), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Immunohistochemical analysis of paraffin-embedded Human brain section using Pink1(Cat#RB8949). RB8949 was diluted at 1:400 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

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