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LINGO1 Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7284a

Specification

LINGO1 Antibody (N-term) - Product Information

Application	**IHC-P, WB,E**
Primary Accession	Q96FE5
Other Accession	Q9D1T0, Q9N008, Q50L44
Reactivity	**Human**
Predicted	**Chicken, Monkey, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**69876**
Antigen Region	**62-92**

LINGO1 Antibody (N-term) - 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 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.

Dilution
IHC-P~~1:10~50
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal 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.

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
LINGO1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

LINGO1 Antibody (N-term) - 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 oligodentrocyte 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}

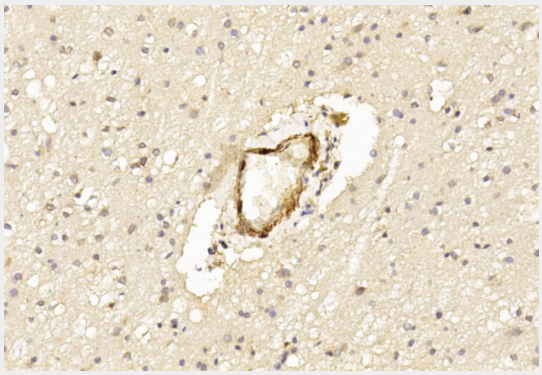
Tissue Location
Expressed exclusively in the central nervous system. Highest level in the in amygdala, hippocampus, thalamus and cerebral cortex. In the rest of the brain a basal expression seems to be always present. Up-regulated in substantia nigra neurons from Parkinson disease patients.

LINGO1 Antibody (N-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

LINGO1 Antibody (N-term) - Images



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.

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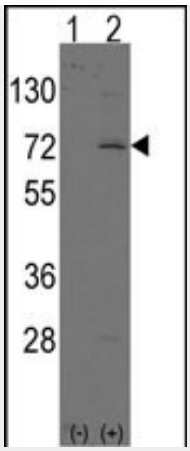

Western blot analysis of LINGO1 (arrow) using rabbit polyclonal LINGO1 Antibody (N-term) (Cat.#AP7284a).293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the LINGO1 gene (Lane 2) (Origene Technologies).

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.

LINGO1 Antibody (N-term) - 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 oligodentrocyte differentiation and axonal myelination.

LINGO1 Antibody (N-term) - 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)