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LINGO1 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7284a

Product Information

Application	WB, IHC-P, E
Primary Accession	Q96FE5
Other Accession	Q9D1T0, Q9N008, Q50L44
Reactivity	Human
Predicted	Chicken, Monkey, Mouse, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB8949
Calculated MW	69876
Antigen Region	62-92

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	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	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.
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.

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.

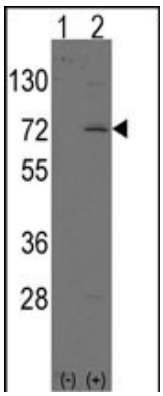
Background

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.

References

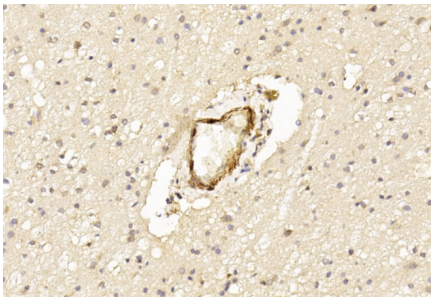
Inoue,H., Proc. Natl. Acad. Sci. U.S.A. 104 (36), 14430-14435 (2007)
Satoh,J., Neuropathol. Appl. Neurobiol. 33 (1), 99-107 (2007)
Mosyak,L., J. Biol. Chem. 281 (47), 36378-36390 (2006)
Mi,S., Nat. Neurosci. 7 (3), 221-228 (2004)

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'.