

LINGO1 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7284d

Product Information

Application	WB, E
Primary Accession	Q96FE5
Other Accession	Q9D1T0 , Q9N008
Reactivity	Human
Predicted	Monkey, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB22992
Calculated MW	69876
Antigen Region	57-85

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 57-85 amino acids from the N-terminal region of human LINGO1.
Dilution	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 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	LINGO1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	LINGO1
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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.

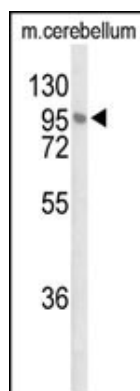
Background

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 Antibody (N-term) (Cat. #AP7284d) in mouse cerebellum tissue lysates (35ug/lane). LINGO1 (arrow) was detected using the purified Pab.

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