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Phospho-LINGO-1(LRRN6A)(S596) Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3685a

Product Information

Application	DB, E
Primary Accession	Q9D1T0
Other Accession	Q9N008, Q96FE5, Q50L44
Reactivity	Human
Predicted	Chicken, Monkey
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB15362
Calculated MW	69101

Additional Information

Gene ID	235402
Other Names	Leucine-rich repeat and immunoglobulin-like domain-containing nogo receptor-interacting protein 1, Leucine-rich repeat neuronal protein 1, Leucine-rich repeat neuronal protein 6A, Lingo1, Lern1, Lrrn6a
Target/Specificity	This LINGO-1(LRRN6A) Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S596 of human LINGO-1(LRRN6A).
Dilution	DB~~1:500 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	Phospho-LINGO-1(LRRN6A)(S596) Antibody 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. Is also an important negative regulator of oligodentrocyte differentiation and axonal myelination (By similarity). Acts in conjunction with RTN4 and RTN4R in regulating neuronal precursor cell motility during cortical development.
Cellular Location	Cell membrane; Single-pass type I membrane protein
Tissue Location	Highly specific expression in the central nervous system. Predominant expression in neocortex, amygdala, hippocampus, thalamus and entorhinal cortex, with lower levels in cerebellum and basal nuclei.

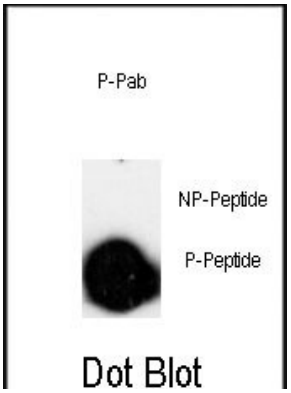
Background

LINGO-1 (LRR and Ig domain-containing Nogo Receptor interating protein) is a nervous system-specific LRR-Ig-containing protein with an important role in CNS biology. LINGO-1 was discovered in a sequence database search for human SLIT homologs that were selectively expressed in the brain. LINGO-1 is a transmembrane protein that is a component of the Nogo-66 receptor complex. It binds NgR1 and p75 and is an additional functional componenet of the NgR1/p75 signaling complex.

References

Mandai,K., et.al., Neuron 63 (5), 614-627 (2009)
Homma,S., et.al., Gene Expr. Patterns 9 (1), 1-26 (2009)

Images



Dot blot analysis of anti-Phospho-LINGO-1(LRRN6A)-pS596 Pab (Cat. #AP3685a) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5ug per ml.