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LINGO1 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP7284a

Specification

LINGO1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q96FE5

LINGO1 Antibody (N-term) Blocking Peptide - 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
The synthetic peptide sequence used to generate the antibody AP7284a was selected from the N-term region of human LINGO1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

LINGO1 Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- Blocking Peptides

LINGO1 Antibody (N-term) Blocking Peptide - Images

LINGO1 Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - 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)