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

Synthetic peptide
Catalog # BP3685a

Specification

Phospho-LINGO-1(LRRN6A)(S596) Antibody Blocking peptide - Product Information

Primary Accession Q9D1T0

Phospho-LINGO-1(LRRN6A)(S596) Antibody Blocking peptide - 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
The synthetic peptide sequence used to generate the antibody AP3685a was selected from the LRRN6A-pS596 region of human Phospho-LINGO-1(LRRN6A)-pS596. 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.

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

Phospho-LINGO-1(LRRN6A)(S596) Antibody Blocking peptide - Protocols

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

- Blocking Peptides

Phospho-LINGO-1(LRRN6A)(S596) Antibody Blocking peptide - Images

Phospho-LINGO-1(LRRN6A)(S596) Antibody Blocking peptide - 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.

Phospho-LINGO-1(LRRN6A)(S596) Antibody Blocking peptide - References

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