BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-LIS1 PAFAH1B1 Antibody

Catalog Number: A01273

About PAFAH1B1

Lissencephaly is a severe brain developmental disease characterized by the mislocalization of cortical neurons, a smooth cerebral surface, mental retardation, and seizures. Classical lissencephaly is caused by sporadic mutations in the LIS1 gene. While LIS1 is known to act in a pathway deactivating the lipid messenger platelet-activating factor, LIS1 forms a complex with Nudel and 14-3-3epsilon which is then transported from neuronal cell bodies through the actions of DISC1 and KIF5A, a microtubule-dependent directed motor protein kinesin. Decreased expression of LIS1 blocked neural stem cell division, morphogenesis, and motility, suggesting that LIS1 plays an important role in neuronal cell proliferation and localization in the developing brain. At least two isoforms of LIS1 are known to exist.

Overview

Product Name	Anti-LIS1 PAFAH1B1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-LIS1 PAFAH1B1 Antibody (Catalog # A01273). Tested in ELISA, WB, ICC, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, ICC, WB
Clonality	Polyclonal
Formulation	LIS1 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	LIS1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	P43034

Technical Details

Immunogen	LIS1 antibody was raised against a 14 amino acid synthetic peptide from near the carboxy terminus of human LIS1. The immunogen is located within amino acids 340 - 390 of LIS1.
Predicted Reactive Species	Bovine, Chicken, Pig
Cross Reactivity	Biotin-Beta-Actin antibody is human, mouse, rat, rabbit, chicken, and drosophila reactive.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL

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Purification	LIS1 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: LIS1 antibody can be used for detection of LIS1 by Western blot at 0.5 - 1 ug/mL. Antibody can also be used for immunocytochemistry starting at 2.5 ug/mL. For immunofluorescence start at 20 ug/mL. Antibody validated: Western Blot in human samples; Immunocytochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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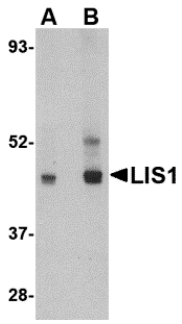
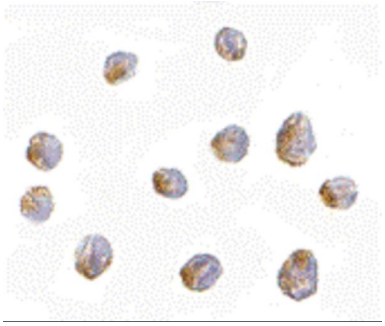
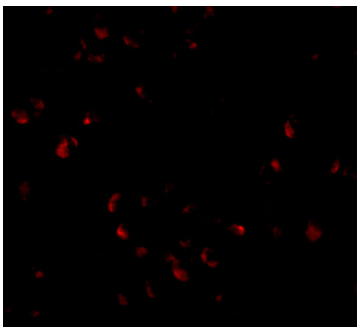
Anti-LIS1 PAFAH1B1 Antibody (A01273) Images



Western blot analysis of LIS1 in HeLa cell lysate with LIS1 antibody at (A) 0.5 and (B) 1 ug/mL.



Immunocytochemistry of LIS1 in Jurkat cells with LIS1 antibody at 2.5 ug/mL.



Immunofluorescence of LIS1 in Jurkat cells with LIS1 antibody at 20 ug/mL.