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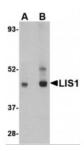
HIGH PERFORMANCE ANTIBODIES ... AND MORE

ProSci Incorporated 12170 Flint Place Poway, CA 92064 Toll Free: +1 (888) 513 9525 Local: +1 (858) 513 2638 Fax: +1 (858) 513 2692

techsupport@prosci-inc.com

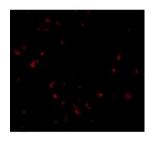
LIS1 Antibody

CATALOG NUMBER: 4287



ALTERNATE NAMES:

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



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



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

Specifications	
SPECIES REACTIVITY:	Human, Mouse, Rat
HOMOLOGY:	Predicted species reactivity based on immunogen sequence: Pig: (100%)
TESTED APPLICATIONS:	ELISA, ICC, IF, WB
APPLICATIONS:	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.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
POSITIVE CONTROL:	1) Cat. No. 1201 - HeLa Cell Lysate
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.
HOST SPECIES:	Rabbit
Properties	
PURIFICATION:	LIS1 Antibody is affinity chromatography purified via peptide column.
PHYSICAL STATE:	Liquid
BUFFER:	LIS1 Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/mL
STORAGE CONDITIONS:	LIS1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated
Additional Info	

LIS1 Antibody: MDS, LIS1, LIS2, MDCR, PAFAH, MDS, PAFAHA, Platelet-activating factor acetylhydrolase IB

	subunit alpha, Lissencephaly-1 protein, LIS-1
ACCESSION NO.:	P43034
PROTEIN GI NO.:	1170794
OFFICIAL SYMBOL:	PAFAH1B1
GENE ID:	5048
Background	
BACKGROUND:	LIS1 Antibody: 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.
REFERENCES:	1) McManus MF and Golden JA. Neuronal migration in developmental disorders. J. Child Neurol.2005; 20:280-6.
	2) Reiner O, Carrozzo R, Shen Y, et al. Isolation of a Miller-Dieker lissencephaly gene containing G protein b-subunit-like repeats. Nature1993; 364:717-21.
	3) Hattori M, Adachi H, Tsujimoto M, et al. Miller-Dieker lissencephaly gene encodes a subunit of brain platelet activating factor. Nature1994; 370:216-8.
	4) Taya S, Shinoda T, Tsuboi D, et al. DISC1 regulates the transport of the NUDEL/LIS1/14-3-3e complex through kinesin-1. J. Neurosci.2007; 27:15-26.

FOR RESEARCH USE ONLY

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