

#12453 Store at -20°C

## LIS1 Antibody



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**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H M R Mk	Endogenous	47	Rabbit	#P43034	5048

<b>Product Usage Information</b>	<b>Application</b> Western Blotting	<b>Dilution</b> 1:1000
<b>Storage</b>	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
<b>Specificity / Sensitivity</b>	LIS1 Antibody recognizes endogenous levels of total LIS1 protein.	
<b>Source / Purification</b>	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly298 of human LIS1 protein. Antibodies are purified by protein A and peptide affinity chromatography.	
<b>Background</b>	LIS1 is a cytoskeleton-interacting protein that contains an N-terminal dimerization domain and a C-terminal β-propeller domain that interacts with the motor domain of dynein (1-3). Research studies have shown that mutations in the LIS1 gene are involved in lissencephaly, a disease characterized by severe defects in brain development (4). LIS1 also plays a critical role in cortical migration and development in the brain (5). LIS1 activity is required for retrograde translocation of excitatory synapses in developing interneuron dendrites in a microtubule-dependent fashion (6).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Sasaki, S. et al. (2000) <i>Neuron</i> 28, 681-96.</li> <li>2. Tai, C.Y. et al. (2002) <i>J Cell Biol</i> 156, 959-68.</li> <li>3. Tarricone, C. et al. (2004) <i>Neuron</i> 44, 809-21.</li> <li>4. Reiner, O. et al. (1993) <i>Nature</i> 364, 717-21.</li> <li>5. Wynshaw-Boris, A. (2007) <i>Clin Genet</i> 72, 296-304.</li> <li>6. Kawabata, I. et al. (2012) <i>Nat Commun</i> 3, 722.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
<b>Applications Key</b>	<b>WB:</b> Western Blotting
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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