

#3812 Store at -20°C

## LSP1 Antibody



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**Orders:** 877-616-CELL (2355)  
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**Web:** info@cellsignal.com  
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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

<b>Applications:</b> WB	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 52	<b>Source:</b> Rabbit	<b>UniProt ID:</b> #P33241	<b>Entrez-Gene Id:</b> 4046
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<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>	LSP1 Antibody detects endogenous levels of LSP1 protein independent of phosphorylation.	
<b>Source / Purification</b>	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding amino acid 37-48 of human LSP1. Antibodies are purified by protein A and peptide affinity chromatography.	
<b>Background</b>	LSP1 is a 52 kDa leukocyte-specific protein expressed in B cells, T cells, macrophages and neutrophils (1). The protein binds F-actin through its C-terminal actin-binding repeat and regulates cytoskeletal-related cellular movement such as polarization, chemotaxis and locomotion (2-4). LSP1 is a phospho-protein and has been identified as a major substrate of MAP kinase and PKC in lymphocytes and neutrophils (5-7). The phosphorylation is possibly related to its cytoskeletal regulatory function.	
<b>Background References</b>	<ol style="list-style-type: none"> <li>Li, Y. et al. (1995) <i>J. Immunol.</i> 155, 3563-3569.</li> <li>Zhang, Q. et al. (2000) <i>J. Immunol.</i> 165, 2052-2058.</li> <li>Li, Y. et al. (2000) <i>Blood</i> 96, 1100-1105.</li> <li>Wang, C. et al. (2002) <i>J. Immunol.</i> 169, 415-423.</li> <li>Huang, C. K. et al. (1997) <i>J. Biol. Chem.</i> 272, 17-19.</li> <li>Matsumoto, N. et al. (1995) <i>J. Biochem. (Tokyo)</i> 117, 222-229.</li> <li>Carballo, E. et al. (1996) <i>J. Immunol.</i> 156, 1709-1713.</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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