

**LSP1 Antibody**

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R	Endogenous	52	Rabbit	#P33241	4046

**Product Usage Information****Application**

Western Blotting

**Dilution**

1:1000

**Storage**

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.

**Specificity/Sensitivity**

LSP1 Antibody detects endogenous levels of LSP1 protein independent of phosphorylation.

**Source / Purification**

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.

**Background**

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.

**Background References**

1. Li, Y. et al. (1995) *J. Immunol.* 155, 3563-3569.
2. Zhang, Q. et al. (2000) *J. Immunol.* 165, 2052-2058.
3. Li, Y. et al. (2000) *Blood* 96, 1100-1105.
4. Wang, C. et al. (2002) *J. Immunol.* 169, 415-423.
5. Huang, C. K. et al. (1997) *J. Biol. Chem.* 272, 17-19.
6. Matsumoto, N. et al. (1995) *J. Biochem. (Tokyo)* 117, 222-229.
7. Carballo, E. et al. (1996) *J. Immunol.* 156, 1709-1713.

**Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer**

**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.

**Applications Key**

**W:** Western Blotting

**Cross-Reactivity Key**

**H:** Human **M:** Mouse **R:** Rat

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