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Store at -20C
#3812

LSP1 Antibody

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

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

- Li, Y. et al. (1995) *J. Immunol.* 155, 3563-3569.
- Zhang, Q. et al. (2000) *J. Immunol.* 165, 2052-2058.
- Li, Y. et al. (2000) *Blood* 96, 1100-1105.
- Wang, C. et al. (2002) *J. Immunol.* 169, 415-423.
- Huang, C. K. et al. (1997) *J. Biol. Chem.* 272, 17-19.
- Matsumoto, N. et al. (1995) *J. Biochem. (Tokyo)* 117, 222-229.
- 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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