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AM33059PU-N
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Monoclonal Antibody to LSP1 / WP34 - Purified

Alternate names: 47 kDa actin-binding protein, 52 kDa phosphoprotein, Lymphocyte-specific antigen WP34,

Lymphocyte-specific protein 1, Protein pp52

Catalog No.: AM33059PU-N

Quantity: 0.1 mg
Concentration: 0.5 mg/ml

Background: Leukocyte-specific protein 1 (LSP1), is a calcium-dependent F-actin binding protein and a

major downstream substrate of p38 mitogen-activated protein kinase as well as protein kinase C. LSP1 plays an important role in leukocyte chemotaxis. During T cell maturation, expression of LSP1 is low on immature CD4+CD8+ double positive thymocytes, but is highly

expressed on mature single positive CD4 and CD8 T cells.

Distribution: Localized to the cytoplasmic leaflet of the plasma membrane.

Function: Contributes to lymphocyte and neutrophil activation and chemotaxis, as well as

lymphocyte differentiation.

Regulation: Phosphorylated by casein kinase II, protein kinase C and MAPKAPK2.

Modification: Phosphorylation.

Interaction: F-actin, Casein kinase II, PKC, MAPKAPK2.

Uniprot ID: P33241

NCBI: NP 001013271.1

GenelD: 4046

Host / Isotype: Mouse / IgG1

Recommended Isotype Controls:

SM10P (for use in human samples), AM03095PU-N

Clone: 5E3

Immunogen: HUT 102 cell lysates.

Format: State: Liquid purified IgG fraction

Purification: Affinity Chromatography

Buffer System: PBS, pH 7.2

Preservatives: 0.09% Sodium Azide

Applications: Western blot: Each lot of this antibody is quality control tested.

Recommended Dilutions: Use 5 μg per 5 ml antibody dilution buffer for each mini-gel.

Immunofluorescence (Reported).

Other applications not tested. Optimal dilutions are dependent on conditions and should

be determined by the user.

Specificity: This *5E3* Monoclonal antibody recognizes LSP1. Other species not tested.

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Storage: Store undiluted at 2-8°C.

DO NOT FREEZE!

Shelf life: one year from despatch.

General Readings:

1. Jongstra-Bilen J, Young AJ, Chong R, Jongstra J. Human and mouse LSP1 genes code for highly conserved phosphoproteins. J Immunol. 1990 Feb 1;144(3):1104-10. PubMed PMID: 2295815.

2. Kadiyala RK, McIntyre BW, Krensky AM. Molecular cloning and characterization of WP34, a phosphorylated human lymphocyte differentiation and activation antigen. Eur J Immunol. 1990 Nov;20(11):2417-23. PubMed PMID: 2174784.

3. Wu Y, Zhan L, Ai Y, Hannigan M, Gaestel M, Huang CK, et al. MAPKAPK2-mediated LSP1 phosphorylation and FMLP-induced neutrophil polarization. Biochem Biophys Res Commun. 2007 Jun 22;358(1):170-5. Epub 2007 Apr 24. PubMed PMID: 17481585.
4. Palker TJ, Fong AM, Scearce RM, Patel DD, Haynes BF. Developmental regulation of lymphocyte-specific protein 1 (LSP1) expression in thymus during human T-cell maturation. Hybridoma. 1998 Dec;17(6):497-507. PubMed PMID: 9890705.

Pictures:

Cell extracts from THP-1 cells were western blotted with anti-LSP1 Antibody Cat.-No AM33059PU-N (Clone 5E3).

