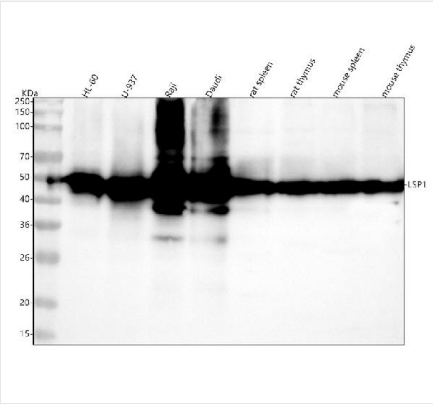
LSP1 Antibody – Rabbit Polyclonal

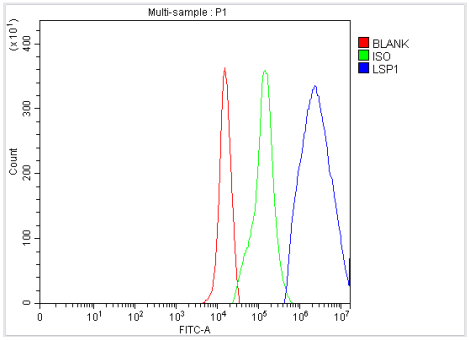
PRODUCT OVERVIEW

Product Name	LSP1, Polyclonal Antibody
Full Product Name	Anti-LSP1 Antibody Picoband
Product Gene Name	anti-LSP1 antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.
Molecular Weight	37,192 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (1874200..1913493). Location: 11p15.5
OMIM	153432
3D Structure	ModBase 3D Structure for P33241
Immunogen	E coli-derived human LSP1 recombinant protein (Position: A21-P339). Human LSP1 shares 67.6% amino acid (aa) sequence identity with mouse LSP1.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Product Categories/Family for anti-LSP1 antibody	Primary Antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-LSP1 antibody	Western Blot (WB), Flow Cytometry (FC/FACS), ELISA (EIA)
Application Notes for anti-LSP1 antibody	WB: 0.1-0.25ug/ml, Human, Mouse, Rat FC/FACS (Fixed): 1-3ug/1x10^6 cells, Human ELISA: 0.1-0.5ug/ml
Related Product Information for anti-LSP1 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product References and Citations for anti-LSP1 antibody	1. Antoniou, A. C., Sinilnikova, O. M., McGuffog, L., Healey, S., Nevanlinna, H., Heikkinen, T., Simard, J., Spurdle, A. B., Beesley, J., Chen, X., Kathleen Cuningham Foundation Consortium for Research into Familial Breast Cancer, Neuhausen, S. L., and 131 others. Common variants in LSP1, 2q35 and 8q24 and breast cancer risk for BRCA1 and BRCA2 mutation carriers. Hum. Molec. Genet. 18: 4442-4456, 2009.2. Easton, D. F., Pooley, K. A., Dunning, A. M., Pharoah, P. D. P., Thompson, D., Ballinger, D. G., Struewing, J. P., Morrison, J., Field, H., Luben, R., Wareham, N., Ahmed, S., and 93 others. Genome-wide association study identifies novel breast cancer susceptibility loci. Nature 447: 1087-1093, 2007. 3. Li, Y., Guerrero, A., Howard, T. H. The actin-binding protein, lymphocyte-specific protein 1, is expressed in human leukocytes and human myeloid and lymphoid cell lines. J. Immun. 155: 3563-3569, 1995.

Other Notes	Small volumes of anti-LSP1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for LSP1 purchase	MBS1758355 is an antibody targeting LSP1. Also known as Anti-LSP1 Antibody Picoband. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-LSP1 antibody
Figure 1. Western blot analysis of LSP1 using anti-LSP1 antibody (MBS1758355).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human HL-60 whole cell lysates,Lane 2: human U-937 whole cell lysates,Lane 3: human Raji whole cell lysates,Lane 4: human Daudi whole cell lysates,Lane 5: rat spleen tissue lysates,Lane 6: rat thymus tissue lysates,Lane 7: mouse spleen tissue lysates,Lane 8: mouse thymus tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-LSP1 antigen affinity purified polyclonal antibody (#MBS1758355) at 0.25ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (#MBS176460) with Tanon 5200 system. A specific band was detected for LSP1 at approximately 52 kDa. The expected band size for LSP1 is at 37 kDa.



Flow Cytometry (FC/FACS) of anti-LSP1 antibody
Figure 2. Flow Cytometry analysis of U937 cells using anti-LSP1 antibody (MBS1758355).Overlay histogram showing U937 cells stained with MBS1758355 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-LSP1 Antibody (MBS1758355, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (MBS177405, 5-10ug/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LSP1. It may not necessarily be applicable to this product.

NCBI GI #	61742789
NCBI GeneID	4046
NCBI Accession #	NP_001013271.1
UniProt Primary Accession #	P33241
UniProt Secondary Accession #	Q16096; Q53H48; Q6FHM3; Q9BUY8; B3KPP1; B3KRR6; E9PBV6; E9PFP3
UniProt Related Accession #	P33241
GenBank Nucleotide #	NM_001013253.1
NCBI Official Full Name	lymphocyte-specific protein 1 isoform 2
NCBI Official Synonym Full Names	lymphocyte-specific protein 1
NCBI Official Symbol	LSP1
NCBI Official Synonym Symbols	WP34; pp52
UniProt Protein Name	Lymphocyte-specific protein 1
UniProt Synonym Protein Names	47 kDa actin-binding protein; 52 kDa phosphoprotein; pp52; Lymphocyte-specific antigen WP34

Protein Family	Lymphocyte-specific protein
UniProt Gene Name	LSP1
UniProt Synonym Gene Names	WP34; pp52
UniProt Entry Name	LSP1_HUMAN
NCBI Protein Information	lymphocyte-specific protein 1; 52 kDa phosphoprotein; 47 kDa actin binding protein; 47 kDa actin-binding protein; leukocyte-specific protein 1; lymphocyte-specific antigen WP34; leufactin (leukocyte F-actin binding protein); F-actin binding and cytoskelet
NCBI Summary for LSP1	This gene encodes an intracellular F-actin binding protein. The protein is expressed in lymphocytes, neutrophils, macrophages, and endothelium and may regulate neutrophil motility, adhesion to fibrinogen matrix proteins, and transendothelial migration. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]
UniProt Comments for LSP1	LSP1: May play a role in mediating neutrophil activation and chemotaxis. Binds actin. Activated T-lymphocytes. Protein type: Actin-binding; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 11p15.5 Cellular Component: membrane; plasma membrane; actin cytoskeleton Molecular Function: signal transducer activity; actin binding Biological Process: cellular defense response; chemotaxis; cell motility; signal transduction
Research Articles on LSP1	**1.** Data indicate that slit2N alters the localization and binding of Robo1 to WASp and LSP1 in HIV-1-gp120-treated immature dendritic cells (iDCs).
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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