LSP1 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	LSP1, Blocking Peptide
Full Product Name	LSP1 Blocking Peptide
Product Gene Name	LSP1 blocking peptide
Product Synonym Names	47 kDa actin binding protein; 47 kDa actin-binding protein; 52 kDa phosphoprotein; F actin binding and cytoskeleton associated protein; Leufactin (leukocyte F-actin binding protein); Leufactin; Leukocyte F actin binding protein; Leukocyte specific protein 1; LSP 1; Lsp1; LSP1_HUMAN; Lymphocyte specific antigen WP34; Lymphocyte specific protein 1; Lymphocyte specific protein pp52; Lymphocyte-specific antigen WP34; Lymphocyte-specific protein 1; OTTHUMP00000014138; OTTHUMP00000014139; OTTHUMP00000014140; OTTHUMP00000069612; OTTHUMP00000069614; OTTHUMP00000069615; OTTHUMP00000069616; pp52; Protein pp52; S37 protein; WP 34; WP34
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	LSP1 peptide (MBS9624320) is used for blocking the activity of LSP1 antibody (MBS9605603)
Molecular Weight	37,192 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (1874200..1913493). Location: 11p15.5
OMIM	153432
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for LSP1 blocking peptide	Blocking/Control
Related Product Information for LSP1 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of LSP1 blocking peptide 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	MBS9624320 is a blocking peptide targeting LSP1.

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).
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