## Lymphocyte Specific Protein 1 / pp52 Monoclonal Mouse Antibody (LSP1/3042)



## **Product Description**

LSP1 is a hematopoietic-expressed gene that encodes an F-actin-binding, leukocyte-specific (including B and T lymphocytes, granulocytes and macrophages), phosphoprotein. However, mRNA splice variants that do not encode the lympho-specific protein are expressed from this gene in nonlymphoid cell lines as well (myocytes, stromal cells and fibroblasts), suggesting pp52 has a divergent role in signal transduction. The pp52 (LSP1) locus maps to human chromosome 11p15. 5, which is implicated in tumor-related chromosomal translocations found in chronic lymphocytic leukemia. The pp52 promoter contains key elements that control transcriptional activity including an initiator specifying the unique 5′ terminus of pp52 mRNA, tandem pairs of Ets and SP1 motifs, and a single C/EBP motif. LSP1 binds the cytoskeleton and has been implicated in affecting cytoskeletal remodeling in a variety of leukocyte functions, including cell motility and chemotaxis. Primary antibodies are available purified, or with a selection of fluorescent CF® dyes and other labels. CF® dyes offer exceptional brightness and photostability. See the CF® Dye Brochure for more information. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors. Stock status: Because Biotium offers a large number of antibody and conjugation options, primary antibody conjugates may be made to order. Typical lead times are up to one week for CF® dye and biotin conjugates, and up to 2-3 weeks for fluorescent protein and enzyme conjugates. Please email order@biotium.com to inquire about stock status and lead times before placing your order.

1; leukocyte specific protein 1  Human gene symbol LSP1  Entrez gene ID 4046  SwissProt P33241  Unigene 56729  Immunogen Recombinant fragment of human LSP1 protein (around aa174-278) (exact sequence is proprietary)  Antibody target cellular Plasma membrane  Human  Antibody application notes  For coating for ELISA, order Ab without BSA, Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody. Optimal dilution and staining procedure for a specific application should be determined by user, Recommended starting concentrations for titration are 1-2 ug/ml. for most					
Karget) Antibody type         Primary           Host species         Mouse           Clonality         Monoclonal           Clone         LSP1/3042           Isotype         IgG1, kappa           Molecular weight         52 kDa           Synonyms         WP34; pp52; lymphocyte specific protein 1           Human gene symbol         LSP1           Entrez gene ID         4046           SwissProt         P33241           Unigene         56729           Immunogen         Recombinant fragment of human LSP1 protein (around aa174-278) (exact sequence is proprietary)           Antibody target cellular         Plasma membrane           Species reactivity         Human           Antibody application notes         For coating for ELISA, order Ab without BSA, Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody Optimal dilution and staining procedure for a specific application should be determined by user, Recommended starting concentrations for fitration are 1-2 ug/mL for most applications, or 1 ug/mLife most applications from light, Note: store BSA-free antibodies at -10 to -35 °C           Shipping condition         Room temperature           Storage Conditions         Store at 2 to 8 °C, Protect fluorescent conjugates fr	Antibody number	#3042			
Host species Mouse Clonality Monoclonal Clone LSP1/3042 Isotype IgG1, kappa Molecular weight 52 kDa Synonyms WP34; pp52; lymphocyte specific protein 1; leukocyte specific protein 1 Human gene symbol LSP1 Entrez gene ID 4046 SwissProt P33241 Unigene 56729 Immunogen Recombinant fragment of human LSP1 protein (around aa174-278) (exact sequence is proprietary) Antibody target cellular Plasma membrane Plasma membrane Antibody application notes Antibody application primary antibody conjugates than for indirect detection with secondary antibody Optimal dilution and staining procedure for a specific application should be determined by user, Recommended starting concentrations for titration are 1-2 ug/mL for most applications, or 1 ug/million cells/100 uL for flow cytometry  Positive control Human tonsil, colon, spleen or Hodgkin' lymphoma (IHC-P). Shipping condition Room temperature Storage Conditions Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C Regulatory status For research use only (RUO) Antibody/conjugate formulation PBS/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% BSA/0.05% BSA/0.05% BSA/0.05% BSA/0.05% BSA/0.05% BSA/0.05% azide Purified, BSA-free: 1 mg/mL in PBS		Lymphocyte Specific Protein 1, pp52			
Clonality Monoclonal Clone LSP1/3042 Isotype IgG1, kappa Molecular weight 52 kDa Synonyms WP34; pp52; lymphocyte specific protein 1; leukocyte specific protein 1 Human gene symbol LSP1 Entrez gene ID 4046 SwissProt P33241 Unigene 56729 Immunogen Recombinant fragment of human LSP1 protein (around aa174-278) (exact sequence is proprietary) Antibody target cellular Plasma membrane Species reactivity Human Antibody application notes For coating for ELISA, order Ab without BSA, Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody. Optimal dilution and staining procedure for a specific application should be determined by user, Recommended starting concentrations for titration are 1-2 ug/mL for most applications, or 1 ug/mllion cells/100 uL for flow cytometry  Positive control Human tonsil, colon, spleen or Hodgkin' lymphoma (IHC-P). Shipping condition Room temperature Storage Conditions Storage Conditions For research use only (RUO) Antibody/conjugate for misch, 105% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in P	Antibody type	Primary			
Clone LSP1/3042  Isotype IgG1, kappa  Molecular weight 52 kDa  Synonyms WP34; pp52; lymphocyte specific protein 1; leukocyte specific protein 1 Human gene symbol LSP1  Entrez gene ID 4046  SwissProt P33241  Unigene Recombinant fragment of human LSP1 protein (around aa174-278) (exact sequence is proprietary)  Antibody target cellular Plasma membrane  Human  Antibody application notes For coating for ELISA, order Ab without BSA, Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody. Optimal dilution and staining procedure for a specific application should be determined by user, Recommended starting concentrations for titration are 1-2 ug/mL for most applications, or 1 ug/million cells/100 uL for flow cytometry  Positive control Human tonsil, colon, spleen or Hodgkin' lymphoma (IHC-P).  Shipping condition Room temperature  Storage Conditions  Storage Conditions  For research use only (RUO)  Antibody/conjugate formulation  Antibody/conjugate formulation  Positive control Row (RUO)  Antibody/conjugate formulation PBS/0.05% BSA/0.05% azide HPC conjugates: 0.1 mg/mL in PBS/0.1% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% BSA/0.05% azide Purified, BSA-free: 1 mg/mL in PBS	Host species	Mouse			
Isotype   IgG1, kappa	Clonality	Monoclonal			
Molecular weight   S2 kDa	Clone	LSP1/3042			
Synonyms  WP34; pp52; lymphocyte specific protein 1; leukocyte specific protein 1  Human gene symbol  Entrez gene ID  4046  SwissProt  P33241  Unigene  Security  Antibody target cellular  Species reactivity  Antibody application notes  For coating for ELISA, order Ab without BSA, Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody Opinual dulino and staining procedure for a specific application should be determined by user, Recommended starting concentrations for titration are 1-2 ug/ml. for most applications, or 1 ug/million cells/100 uL for flow cytometry  Positive control  Human tonsil, colon, spleen or Hodgkin' lymphoma (IHC-P).  Shipping condition  Storage Conditions  Storage Conditions  For research use only (RUO)  Antibody/conjugate formulation  Positive control  Antibody/conjugate formulation  Positive control Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C  Regulatory status  For research use only (RUO)  Antibody/conjugate formulation  PBS/0.05% azide, HRP conjugates: 0.1 mg/mL. in PBS/0.1% BSA/0.05% BSA/0	Isotype	IgG1, kappa			
1; leukocyte specific protein 1  Human gene symbol LSP1  Entrez gene ID 4046  SwissProt P33241  Unigene 56729  Immunogen Recombinant fragment of human LSP1 protein (around aa174-278) (exact sequence is proprietary)  Antibody target cellular Plasma membrane  Species reactivity Human  Antibody application notes For coating for ELISA, order Ab without BSA, Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody Optimal dilution and staining procedure for a specific application should be determined by user, Recommended starting concentrations for titration are 1-2 ug/ml. for most applications, or 1 ug/million cells/100 ut for flow cytometry  Positive control Human tonsil, colon, spleen or Hodgkin' lymphoma (IHC-P).  Shipping condition Room temperature  Storage Conditions Storage Conditions  For research use only (RUO)  Antibody/conjugate formulation PBS/0.1% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.1% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% BSA/0.05% azide Purified, BSA-free: 1 mg/mL in PBS without azide  Validated in protein Shelf life  Guaranteed for at least 24 months from date of receipt when stored as	Molecular weight	52 kDa			
Entrez gene ID  SwissProt  P33241  Unigene  56729  Immunogen  Recombinant fragment of human LSP1 protein (around aa174-278) (exact sequence is proprietary)  Antibody target cellular  Plasma membrane  Plasma membrane  Human  Antibody application notes  For coating for ELISA, order Ab without BSA, Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Optimal dilution and staining procedure for a specific application should be determined by user, Recommended starting concentrations for titration are 1-2 ug/ml for most applications, or 1 ug/million cells/100 uL for flow cytometry  Positive control  Human tonsil, colon, spleen or Hodgkin' lymphoma (IHC-P).  Shipping condition  Storage Conditions  Storage Conditions  Storage Conditions  For research use only (RUO)  Antibody/conjugate formulation  Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide purified, BSA-free: 1 mg/mL in PBS without azide  Validated in protein  Shelf life  Guaranteed for at least 24 months from date of receipt when stored as	Synonyms	WP34; pp52; lymphocyte specific protein 1; leukocyte specific protein 1			
SwissProt Unigene 56729 Immunogen Recombinant fragment of human LSP1 protein (around aa174-278) (exact sequence is proprietary) Antibody target cellular Plasma membrane Plasma membrane Human Antibody application notes For coating for ELISA, order Ab without BSA, Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody. Optimal dilution and staining procedure for a specific application should be determined by user, Recommended starting concentrations for titration are 1-2 ug/ml for most applications, or 1 ug/million cells/100 ut for flow cytometry  Positive control Human tonsil, colon, spleen or Hodgkin' lymphoma (IHC-P). Shipping condition Storage Conditions Storage Conditions For research use only (RUO) Antibody/conjugate formulation For research use only (RUO) Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/	Human gene symbol	LSP1			
Unigene 56729  Immunogen Recombinant fragment of human LSP1 protein (around aa174-278) (exact sequence is proprietary)  Antibody target cellular Plasma membrane  Species reactivity Human  Antibody application notes  For coating for ELISA, order Ab without SSA, Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody. Optimal dilution and staining procedure for a specific application should be determined by user, Recommended starting concentrations for titration are 1-2 ug/ml for most applications, or 1 ug/million cells/100 ut for flow cytometry  Positive control Human tonsil, colon, spleen or Hodgkin' lymphoma (IHC-P).  Shipping condition Room temperature  Storage Conditions  Storage Conditions  Storage Conditions  For research use only (RUO)  Antibody/conjugate formulation  Antibody/conjugate formulation  Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% BSA/0.0	Entrez gene ID	4046			
Recombinant fragment of human LSP1 protein (around aa174-278) (exact sequence is proprietary)   Antibody target cellular   Plasma membrane	SwissProt	P33241			
Antibody target cellular  Plasma membrane  Species reactivity  Antibody application notes  For coating for ELISA, order Ab without BSA, Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Optimal dilution and staining procedure for a specific application should be determined by user, Recommended starting concentrations for ittration are 1-2 ug/ml for most applications, or 1 ug/million cells/100 u.f or flow cytometry  Positive control  Human tonsil, colon, spleen or Hodgkin' lymphoma (IHC-P).  Shipping condition  Storage Conditions  Storage Conditions  Storage Conditions  For research use only (RUO)  Antibody/conjugate formulation  Antibody/conjugate formulation  Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purfied: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide purfied, BSA-free: 1 mg/mL in PBS/0.05% without azide	Unigene	56729			
Antibody application notes   For coating for ELISA, order Ab without BSA, Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Optimal dilution and staining procedure for a specific application should be determined by user, Recommended starting concentrations for titration are 1-2 ug/ml. for most applications, or 1 ug/million cells/100 uL for flow cytometry	Immunogen	protein (around aa174-278) (exact			
Antibody application notes  For coating for ELISA, order Ab without BSA, Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody. Optimal dilution and staining procedure for a specific application should be determined by user, Recommended starting concentrations for titration are 1-2 ug/ml. for most applications, or 1 ug/million cells/100 uL for flow cytometry  Positive control Human tonsil, colon, spleen or Hodgkin' lymphoma (IHC-P).  Shipping condition Room temperature  Storage Conditions  Storage Conditions  Storage Conditions  Storage Conditions  For research use only (RUO)  Antibody/conjugate formulation  Antibody/conjugate formulation  BSA-1ree antibodies at -10 to -35 °C  Regulatory status  For research use only (RUO)  Antibody/conjugate formulation  BSA-0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide Purified, BSA-free: 1 mg/mL in PBS/0.05% azide Purified, BSA-free: 1 mg/mL in PBS/0.05% azide Purified, BSA-free: 1 mg/mL in PBS/0.05% BSA-free: 1 mg/mL in PBS/0.05% BSA-free 1 mg/mL in PBS/0.05% BSA-fr	Antibody target cellular	Plasma membrane			
notes  BSA, Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Optimal dilution and staining procedure for a specific application should be determined by user, Recommended starting concentrations for ittration are 1-2 ug/ml. for most applications, or 1 ug/million cells/100 ut for flow cytometry  Positive control  Human tonsil, colon, spleen or Hodgkin' lymphoma (IHC-P).  Shipping condition  Storage Conditions  Storage Conditions  Storage Conditions  Store at 2 to 5 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C  Regulatory status  For research use only (RUO)  Antibody/conjugate formulation  Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide Purified, BSA-free: 1 mg/mL in PBS/0.05% azide Purified, BSA-free: 1 mg/mL in PBS/0.05% BSA/0.05% azide purified, BSA-free: 1 mg/mL in PBS/0.05% azide purified, BSA-free: 1	Species reactivity	Human			
Shipping condition   Room temperature		BSA, Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Optimal dilution and staining procedure for a specific application should be determined by user, Recommended starting concentrations for titration are 1-2 ug/mL for most applications, or 1 ug/million cells/100 uL			
Storage Conditions  For research use only (RUO)  Conjugates: 0.1 mg/mL in PBS/0.1%  BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.5% azide Purified, BSA-free: 1 mg/mL in PBS  Validated in protein  Shelf life  Guaranteed for at least 24 months from date of receipt when stored as	Positive control				
conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C  Regulatory status  For research use only (RUO)  Antibody/conjugate formulation  SSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide Purified, BSA-free: 1 mg/mL in PBS without azide  Validated in protein  Shelf life  Guaranteed for at least 24 months from date of receipt when stored as	Shipping condition	Room temperature			
Regulatory status   For research use only (RUO)	Storage Conditions	conjugates from light, Note: store			
formulation  BSÁ/0.6% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.65% azide Purified, BSA-free: 1 mg/mL in PBS without azide  Validated in protein  Monospecific  Shelf life  Guaranteed for at least 24 months from date of receipt when stored as	Regulatory status	For research use only (RUO)			
Shelf life Guaranteed for at least 24 months from date of receipt when stored as		BSA/0.05% azide, HRP conjugates: 0. mg/mL in PBS/0.05% BSA, Purified: 0. mg/mL in PBS/0.05% BSA/0.05% azid Purified, BSA-free: 1 mg/mL in PBS			
date of receipt when stored as	Validated in protein	Monospecific			
	Shelf life	date of receipt when stored as			

Leukocytes

Cell/tissue expression

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Antibody # prefix	Conjugation	Ex/Em (nm)	Laser line	Detection channel	Dye Features
BNC04	CF®405S	404/431	405	DAPI (microscopy), AF405	CF®405S Features
BNC88	CF®488A	490/515	488	GFP, FITC	CF®488A Features
BNC68	CF®568	562/583	532, 561	RFP, TRITC	CF®568 Features
BNC94	CF®594	593/614	561	Texas Red®	CF®594 Features
BNC40	CF®640R	642/662	633-640	Cy®5	CF®640R Features
BNC47	CF®647	650/665	633-640	Cy®5	CF®647 Features
BNCB	Biotin	N/A	N/A	N/A	
BNUB	Purified	N/A	N/A	N/A	
BNUM	Purified,	N/A	N/A	N/A	

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