

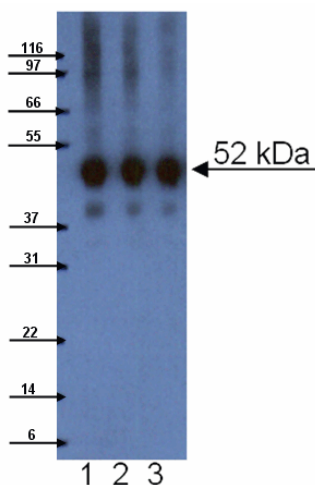
Technical Data Sheet

Purified Mouse Anti-Human LSP-1**Product Information**

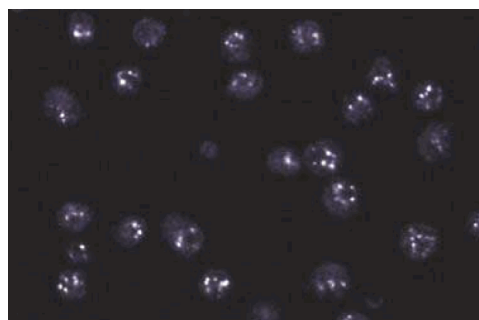
Material Number:	610734
Alternate Name:	Lymphocyte Specific Protein-1
Size:	50 µg
Concentration:	250 µg/ml
Clone:	16/LSP-1
Immunogen:	Human LSP-1 aa. 75-215
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human
Target MW:	52 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

LSP-1 (Lymphocyte Specific Protein-1) is expressed in lymphocytes (B cells, cytotoxic T cells, and helper T cells), neutrophils, and macrophages and is involved in lymphocyte signal transduction. LSP-1 is a cytoplasmic membrane-bound protein that, following activation, translocates to the cytosol. This activation and translocation is mediated by phosphorylation of serine and threonine residues in the C-terminus of LSP-1 in response to concanavalin A or phorbol myristate acetate stimulation of murine T cells. LSP-1 contains two N-terminal calcium-binding sites and has also been shown to bind to actin. These results suggest that LSP-1 may be involved in the binding of actin to the plasma membrane following stimulation of PKC in murine T cells. The mRNA is constitutively expressed; however, the protein is only expressed following activation of the cell. Furthermore, LSP-1 is a substrate for MAPKAP kinase 2 (MAP kinase-activated protein kinase 2) in neutrophils.



Western blot analysis of LSP-1 on a EB1 cell lysate (Human Burkitt's Lymphoma; ATCC HTB-60™). Lane 1: 1:125, lane 2: 1:250, lane 3: 1:500 dilution of the mouse anti-human LSP-1 antibody.



Immunofluorescence staining of Jurkat cells (Human T-cell leukemia; ATCC TIB-152™).

Preparation and Storage

Store undiluted at -20°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Application Notes**Application**

Western blot	Routinely Tested
Immunofluorescence	Tested During Development
Immunohistochemistry	Tested During Development
Immunoprecipitation	Not Recommended

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Recommended Assay Procedure:

Western blot: Please refer to <http://www.bdbiosciences.com/resources/cellbiology/index.jsp>

Suggested Companion Products

Catalog Number	Name	Size	Clone
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Howard T, Li Y, Torres M, Guerrero A, Coates T. The 47-kD protein increased in neutrophil actin dysfunction with 47- and 89-kD protein abnormalities is lymphocyte-specific protein. *Blood*. 1994; 83(1):231-241. (Biology)

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Kadiyala RK, McIntyre BW, Krensky AM. Molecular cloning and characterization of WP34, a phosphorylated human lymphocyte differentiation and activation antigen. *Eur J Immunol*. 1990; 20(11):2417-2423. (Biology)

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Matsumoto N, Kojima S, Osawa T, Toyoshima S. Protein kinase C phosphorylates p50 LSP1 and induces translocation of p50 LSP1 in T lymphocytes. *J Biochem (Tokyo)*. 1994; 117(1):222-229. (Biology)

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