

AbboMax, Inc

Innovation at Work

Rabbit anti LSP1, Phosphospecific

Alternate Names: Lymphocyte antigen; lymphocyte-specific protein 1 (LSP1);

Order Information

Description: Rabbit anti phospho-LSP1
Catalogue#: 602-250
Lot#: See the label
Size: 100 ug/200 ul
Host: Rabbit
Clone: N/A
Application: ELISA, WB, IHC
Reactivity: Hu, Ms

ANTIGEN PREPARATION

A synthetic peptide corresponding to the C-terminus with a phosphorylated serine of human lymphocyte-specific protein 1. This sequence is identical to mouse species

BACKGROUND

Leukocyte-specific protein 1 (LSP1), an F-actin binding protein and a major downstream substrate of p38 mitogen-activated protein kinase as well as protein kinase C, is important in leukocyte chemotaxis. Two serine residues at positions 204 and 252 are potential phosphorylation sites. The amino acid sequences surrounding these two sites are in agreement with the consensus sequence (Xaa-Xaa-Hyd-Xaa-Arg-Xaa-Xaa-Ser-Xaa-Xaa) for phosphorylation by MAPKAP kinase 2. Both serine residues in human LSP1 and the corresponding conserved serine residues in human and mouse LSP1 are in the basic C-terminal F-actin binding domain. LSP1 is a substrate for MAPKAP kinase 2 in vitro and that the phosphorylation sites are located in the basic C-terminal domain of LSP1.

PURIFICATION

The Rabbit IgG is purified by Site-specific Epitope Affinity Purification.

SPECIFICITY

This antibody recognizes ~52 kDa of human LSP1 protein at a phosphorylated serine 252. It does not recognize non-phosphorylated peptides confirmed by dot blot. This antibody also reacts with mouse. The other species are not tested.

FORMULATION

This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer

STORAGE

The antibodies are stable for 12 months from date of receipt when stored at -20°C to -70°C. The antibodies can be stored at 2°C-8°C for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS

Western Blot	0.1-1 µg/ml
ELISA	0.01-0.1 µg/ml
Immunoprecipitation	2-5 µg/ml
IHC	2-5 µg/ml
Flow cytometry	Not tested

MOLECULAR WEIGHT:	~52 kDa
POSITIVE CONTROL:	Mouse spleen tissue
CELLULAR LOCATION:	Cytoplasmic and membrane

Optimal dilutions should be determined by researchers for the specific applications.

DATA ATTACHMENTS



WB: The whole cell lysate derived from m-CSF stimulated Jurket cells (lane 1) or mouse spleen (Lane 2) were immune-probed by Rabbit anti phospho-LSP1 (Cat#602-250) at 1:500. An immunoreactive band is observed around ~52kDa .

REFERENCES:

Lixin Liu, et al. LSP1 is an endothelial gatekeeper of leukocyte transendothelial migration. (2005), JEM, 201(3): 409-418.

FOR RESEARCH USE ONLY.

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