

11-402-C025

Monoclonal Antibody to SLP76 Purified Antibody (0.025 mg)

Clone:	SLP-76/03
Isotype:	Mouse IgG2b
Specificity:	The polyclonal antibody reacts with SLP76, a 76kDa cytosolic adaptor protein that is involved in signaling of various hematopoietic cells, such as T cells, mast cells or neutrophils; in B cells, however, it is replaced by SLP65.
Regulatory Status:	RUO
Immunogen:	Bacterially expressed fusion protein representing amino acids 216-434 of human SLP76 with histidine tag
Species Reactivity:	Human, Porcine, Mouse
Application:	Western Blotting Immunohistochemistry (paraffin sections) Recommended dilution: 10 µg/ml Positive tissue: thymus
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified from ascites by protein-G affinity chromatography.
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration:	See vial label
Lot Number:	See vial label
Background:	SLP76 (SH2 domain-containing leukocyte protein of 76 kDa) is a cytosolic adaptor protein which translocates to the plasma membrane and is involved in multiple signaling pathways in T cells, mast cells, neutrophils and platelets; B cells express its analog SLP65/BLNK (B cell linker protein). SLP76 is phosphorylated by Syk-family and Tec-family tyrosine kinases and couples them to the phosphorylation and activation of PLC-gamma. Via Gads or Grb2, SLP76 also associates with LAT adaptor by involvement of SLP76 proline-rich region. The SH2 domain of SLP76 has been identified as the region involved in binding the serine/threonine kinase HPK1. HPK1 may act as both a positive and a negative regulator by promoting the Jnk-mitogen activated protein kinase (MAPK) pathway and inhibiting the pathway leading to AP-1 activation.

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Antibodies

References:

- *Pivniouk VI, Martin TR, Lu-Kuo JM, Katz HR, Oettgen HC, Geha RS: SLP-76 deficiency impairs signaling via the high-affinity IgE receptor in mast cells. *J Clin Invest.* 1999 Jun;103(12):1737-43.
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- *Koretzky GA, Abtahian F, Silverman MA: SLP76 and SLP65: complex regulation of signalling in lymphocytes and beyond. *Nat Rev Immunol.* 2006 Jan;6(1):67-78.
- *Beach D, Gonen R, Bogin Y, Reischl IG, Yablonski D: Dual role of SLP-76 in mediating T cell receptor-induced activation of phospholipase C-gamma1. *J Biol Chem.* 2007 Feb 2;282(5):2937-46.
- *Bogin Y, Ainey C, Beach D, Yablonski D: SLP-76 mediates and maintains activation of the Tec family kinase ITK via the T cell antigen receptor-induced association between SLP-76 and ITK. *Proc Natl Acad Sci U S A.* 2007 Apr 17;104(16):6638-43.

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