ARG63097
anti-LCP2 / SLP76 antibody [SLP-76/03]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [SLP-76/03] recognizes LCP2 / SLP76
Tested Reactivity	Hu, Ms, Pig
Tested Application	IHC-P, WB
Specificity	The clone SLP-76/03 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.
Host	Mouse
Clonality	Monoclonal
Clone	SLP-76/03
Isotype	IgG2b
Target Name	LCP2 / SLP76
Species	Human
Immunogen	Bacterially expressed fusion protein corresponding to aa. 216-434 of Human SLP76 with histidine tag.
Conjugation	Un-conjugated
Alternate Names	Lymphocyte cytosolic protein 2; SLP-76 tyrosine phosphoprotein; SLP76; SH2 domain-containing leukocyte protein of 76 kDa; SLP-76

Application Instructions

Application table

Application	Dilution
IHC-P	10 µg/ml
WB	Assay-dependent

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	IHC-P: Thymus.

Properties

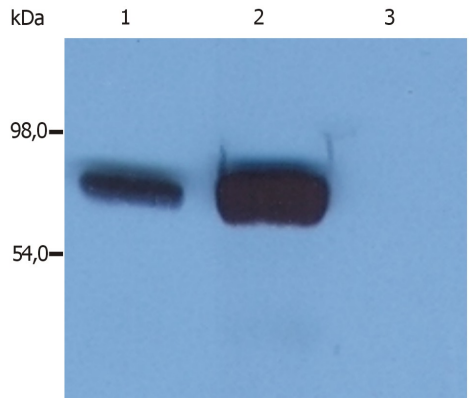
Form	Liquid
Purification	Purified from ascites by protein-G affinity chromatography.
Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	1 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 16822 Mouse GeneID: 3937 Human Swiss-port # Q13094 Human Swiss-port # Q60787 Mouse
Gene Symbol	LCP2
Gene Full Name	lymphocyte cytosolic protein 2 (SH2 domain containing leukocyte protein of 76kDa)
Background	SLP76 (SH2 domain-containing leukocyte protein of 76 kDa) is a cytosolic adaptor protein which translocates to the plasma mambrane 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.
Function	Involved in T-cell antigen receptor mediated signaling. [UniProt]
Research Area	Signaling Transduction antibody
Calculated Mw	60 kDa
PTM	Phosphorylated after T-cell receptor activation by ZAP70, ITK and TXK, which leads to the up-regulation of Th1 preferred cytokine IL-2. SYK-dependent phosphorylation is required for recruitment of PI3K signaling components.

Images



ARG63097 anti-LCP2 / SLP76 antibody [SLP-76/03] WB image

Western blot: 1) HPB-ALL, 2) Jurkat, and 3) Ramos cell lysates stained with ARG63097 anti-LCP2 / SLP76 antibody [SLP-76/03].