Datasheet for ABIN1177175

anti-LCP2 antibody (pTyr128) (Alexa Fluor 488)

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Overview

Quantity:	50 tests
Target:	LCP2
Binding Specificity:	pTyr128
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This LCP2 antibody is conjugated to Alexa Fluor 488
Application:	Intracellular Staining (ICS)

Product Details

Brand:	BD Phosflow™
Immunogen:	Phosphorylated Human SLP-76
Clone:	J141-668-36-58
Isotype:	IgG1 kappa
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	LCP2
Alternative Name:	SLP-76 (LCP2 Products)

Target Details

Background:	SLP-76 (SH2 domain-containing Leukocyte Protein of 76 kDa) is a tyrosine phosphoprotein that is involved in the T cell receptor (TCR) -mediated intracellular signaling pathway. It may be involved in the signaling pathways of other peripheral blood leukocytes, thymic/splenic cells, and in human T, B, and monocytic cell lines. SLP-76 consists of several motifs that signify its importance in protein-protein interactions involved in intracellular signaling pathways, such as the SH2 domain in the C-terminus, the three amino-terminus 17-amino acid repeats with conserved tyrosine and acidic residues (DYE(S/P)P), and a proline rich region. SLP-76 has been shown to associate with Gads, Grb2, PLCg1, SLAP-130, and Vav, all of which are part of the signaling cascade in T lymphocytes. An early event in the T cell activation pathway is the phosphorylation, by the Syk-family kinase ZAP-70, of SLP-76 at the three conserved tyrosine motifs, which then mediate interactions with downstream effectors. The phosphorylated tyrosine 128 (Y128) brings the Rho family guanine nucleotide exchange factor Vav1 and the Nck adapter protein, which binds to p21-activated kinase (PAK1) and Wiskott-Aldrich syndrome protein (WASP), into the activation complex. Vav1, PAK1, and WASP may mediate TCR-stimulated actin cytoskeletal rearrangement. The J141-688.36.58 monoclonal antibody recognizes the phosphorylated Y128 of activated SLP-76.
Pathways:	TCR Signaling, Fc-epsilon Receptor Signaling Pathway

Application Details

Application Notes:	This antibody conjugate is suitable for intracellular staining of human whole blood (using BD Phosflow™ Lyse/Fix Buffer) and peripheral blood mononuclear cells (using BD Cytofix™ Fixation Buffer). Any of the three BD Phosflow™ permeabilization buffers may be used.
Sample Volume:	20 µL
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Aqueous buffered solution containing BSA and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C

Handling

Storage Comment:	Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze. The antibody was conjugated to Alexa Fluor® 488 under optimum conditions, and unreacted Alexa Fluor® 488 was removed.

Publications

Product cited in:	Fang, Motto, Ross, Koretzky: "Tyrosines 113, 128, and 145 of SLP-76 are required for optimal augmentation of NFAT promoter activity." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 157, Issue 9, pp. 3769-73, (1996) (PubMed).