

Datasheet for ABIN1177173  
**anti-LCP2 antibody (pTyr128) (PE)**



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**1** Image **2** Publications

## Overview

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

## Product Details

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

## Target Details

Target:	LCP2
Alternative Name:	SLP-76 ( <a href="#">LCP2 Products</a> )
Background:	SLP-76 (SH2 domain-containing Leukocyte Protein of 76 kDa) is a tyrosine phosphoprotein that

## Target Details

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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

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Application Notes: This antibody conjugate is suitable for intracellular staining of human whole blood and mouse splenocytes (using BD™ Phosflow Lyse/Fix Buffer) and peripheral blood mononuclear cells (using BD Cytotfix™ Fixation Buffer). Any of the three BD™ Phosflow permeabilization buffers may be used.

Sample Volume: 20 µL

Restrictions: For Research Use only

## Handling

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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

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Storage Comment: The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed. Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

## Publications

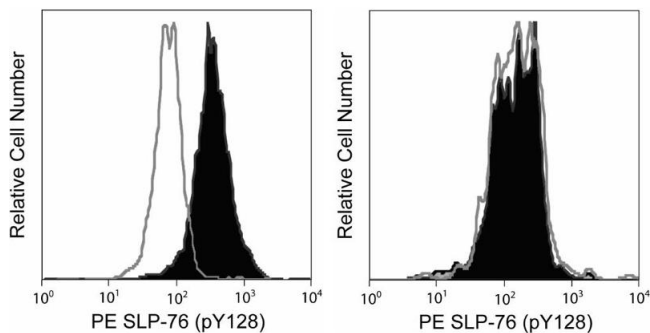
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Product cited in: Wu, Koretzky: "The SLP-76 family of adapter proteins." in: **Seminars in immunology**, Vol. 16, Issue 6, pp. 379-93, (2004) ([PubMed](#)).

Janssen, Zhang: "Adaptor proteins in lymphocyte activation." in: **Current opinion in immunology**, Vol. 15, Issue 3, pp. 269-76, (2003) ([PubMed](#)).

## Images

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### Flow Cytometry

#### Image 1.