abcam

ab278579

APC Anti-SLP76 (phospho Y128) antibody [SLP76Y128-3F8]

Recombinant

Key facts

Isotype	IgG
Host species	Rabbit
Conjugation	APC
Excitation/Emission	Ex: 650nm, Em: 660nm
Storage buffer	Preservative: 0.09% Sodium azide Constituents: PBS, 0.2% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	Synthetic Peptide within Human LCP2 pY128. The exact immunogen used to generate this antibody is proprietary information. Database link Q13094
Clone number	SLP76Y128-3F8
Purification technique	Affinity purification Protein A/G
Light chain type	kappa

Reactivity data

Flow Cyt

Tested

Species	Human

Dilution info	5 µL for 10^6 Cells
Notes	-

Target data

See full target information LCP2 pY128

Function	Adapter protein primarily involved in signaling pathways within T-cells, as well as other immune cells such as platelets, mast cells, and natural killer (NK) cells (PubMed:11313406, PubMed:33159816). Plays a crucial role for transducing signal from the T-cell receptor (TCR) after antigen recognition leading to T-cell activation. Mechanistically, once phosphorylated by the kinase ZAP70, mediates interactions with the guanine-nucleotide exchange factor VAV1, the adapter protein NCK and the kinase ITK (PubMed:8673706, PubMed:8702662). In turn, stimulates the activation of PKC-theta/PRKCQ and NF-kappa-B transcriptional activity in response to CD3 and CD28 costimulation (PubMed:11313406). Also plays an essential role in AGER-induced signaling pathways including p38 MAPK and ERK1/2 activation leading to cytokine release and pro-inflammatory responses (PubMed:33436632).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Store in the dark

Notes

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	SLP76 also known as Src homology 2 domain-containing leukocyte phosphoprotein of 76 kDa plays a pivotal role in intracellular signaling. This adaptor protein weighs approximately 76 kilodaltons and is predominantly expressed in hematopoietic cells particularly T cells NK cells mast cells and platelets. SLP76 functions to relay signals from the cell surface to the nucleus affecting cellular responses including activation proliferation and differentiation.
Biological function summary	This adaptor protein serves as a scaffold linking membrane-proximal signaling to downstream cellular effectors. SLP76 forms part of a larger signaling complex with proteins such as LAT (Linker for Activation of T cells) and Gads facilitating the assembly of multi-protein complexes necessary for signal transduction. It coordinates the recruitment and activation of several enzymes and substrates which leads to robust immune cell responses.
Pathways	The function of SLP76 integrates into T cell receptor (TCR) signaling and integrin signaling pathways. In TCR signaling SLP76 interacts closely with proteins LAT and ZAP-70 which are triggered upon antigen recognition. This interaction propagates the immune response by activating downstream effectors like MAP kinases and NF-kB. In integrin signaling SLP76 helps mediate cytoskeletal rearrangements which are important for cell migration and adhesion.
Associated diseases and disorders	Mutations or dysregulation of SLP76 associate with immunodeficiencies and hematologic malignancies. Aberrant SLP76 activity can lead to inappropriate activation or inactivation of immune responses contributing to disorders as SCID (Severe Combined Immunodeficiency) and some types of leukemia. Additionally it connects with proteins such as LAT in disease contexts reflecting a shared pathway disruption contributing to the pathophysiology of these conditions.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

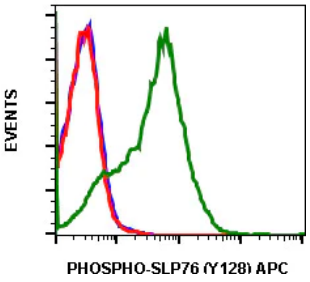
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

1 product image



Flow Cytometry - APC Anti-SLP76 (phospho Y128) antibody [SLP76Y128-3F8] (ab278579)

SLP76 (phospho Y128) Flow Cytometry staining using rabbit Anti-SLP76 (phospho Y128) antibody

Flow cytometric analysis of Ramos cells unstained untreated Ramos cells negative control (blue) or stained untreated (red) or treated cells with pervanadate (green) using ab278579.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.