

Anti-SLP76 (Phospho-Y128) Antibody

Catalog # AP51657

Product Information

Application	WB, IHC
Primary Accession	Q13094
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	60188

Additional Information

Gene ID	3937
Other Names	Lymphocyte cytosolic protein 2; SH2 domain-containing leukocyte protein of 76 kDa; SLP-76 tyrosine phosphoprotein; SLP76
Target/Specificity	KLH-conjugated synthetic phosphopeptide corresponding to residues surrounding Y128 of human SLP76 protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	LCP2
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).
Cellular Location	Cytoplasm.

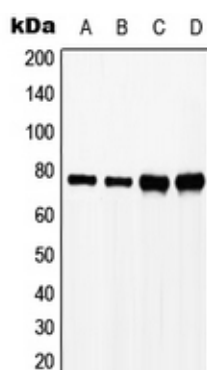
Tissue Location

Highly expressed in spleen, thymus and peripheral blood leukocytes. Highly expressed also in T-cell and monocytic cell lines, expressed at lower level in B-cell lines. Not detected in fibroblast or neuroblastoma cell lines

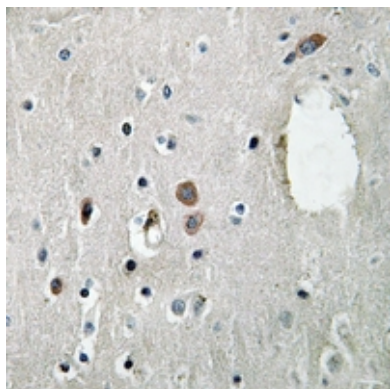
References

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Images



Western blot analysis of SLP76 (Phospho-Y128) expression in HeLa H₂O₂-treated (A), Jurkat (B), Raw264.7 H₂O₂-treated (C), PC12 H₂O₂-treated (D) whole cell lysates. (Predicted band size: 60 kD; Observed band size: 76 kD)



Immunohistochemical analysis of SLP76 (Phospho-Y128) staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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