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APS Antibody (Y629) Blocking Peptide

Synthetic peptide
Catalog # BP7747a

Specification

APS Antibody (Y629) Blocking Peptide - Product Information

Primary Accession O14492

APS Antibody (Y629) Blocking Peptide - Additional Information

Gene ID 10603

Other Names
SH2B adapter protein 2, Adapter protein with pleckstrin homology and Src homology 2 domains, SH2 and PH domain-containing adapter protein APS, SH2B2, APS

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7747a was selected from the Y629 region of human APS. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

APS Antibody (Y629) Blocking Peptide - Protein Information

Name SH2B2

Synonyms APS

Function
Adapter protein for several members of the tyrosine kinase receptor family. Involved in multiple signaling pathways. May be involved in coupling from immunoreceptor to Ras signaling. Acts as a negative regulator of cytokine signaling in collaboration with CBL. Binds to EPOR and suppresses EPO-induced STAT5 activation, possibly through a masking effect on STAT5 docking sites in EPOR. Suppresses PDGF-induced mitogenesis. May induce cytoskeletal reorganization via interaction with VAV3.

Cellular Location
Cytoplasm. Cell membrane. Note=Cytoplasmic before PDGF stimulation. After PDGF stimulation,

localized at the cell membrane and peripheral region

Tissue Location
Expressed in spleen, prostate, testis, uterus, small intestine and skeletal muscle. Among hematopoietic cell lines, expressed exclusively in B-cells. Not expressed in most tumor cell lines.

APS Antibody (Y629) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

APS Antibody (Y629) Blocking Peptide - Images

APS Antibody (Y629) Blocking Peptide - Background

APS is expressed in B lymphocytes and contains pleckstrin homology and src homology 2 (SH2) domains. In Burkitt lymphoma cell lines, it is tyrosine phosphorylated in response to B cell receptor stimulation. Because it binds Shc independent of stimulation and Grb2 after stimulation, it appears to play a role in signal transduction from the receptor to Shc/Grb2.

APS Antibody (Y629) Blocking Peptide - References

Li,M., Endocrinology 148 (4), 1615-1621 (2007)Katsanakis,K.D., J. Biol. Chem. 280 (45), 37827-37832 (2005)Iseki,M., Biochem. Biophys. Res. Commun. 330 (3), 1005-1013 (2005)