

**APS Antibody (Y629) Blocking Peptide**  
Synthetic peptide  
Catalog # BP7747a

**Specification**

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**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)