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SH2D1B Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP9126c

Specification

SH2D1B Antibody (Center) Blocking Peptide - Product Information

Primary Accession O14796

SH2D1B Antibody (Center) Blocking Peptide - Additional Information

Gene ID 117157

Other Names
SH2 domain-containing protein 1B, EWS/FLI1-activated transcript 2, EAT-2, SH2D1B, EAT2

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP9126c was selected from the Center region of human SH2D1B. 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.

SH2D1B Antibody (Center) Blocking Peptide - Protein Information

Name SH2D1B

Synonyms EAT2

Function
Cytoplasmic adapter regulating receptors of the signaling lymphocytic activation molecule (SLAM) family such as CD84, SLAMF1, LY9 and CD244 (PubMed:11689425). In SLAM signaling seems to cooperate with SH2D1A/SAP. Plays a role in regulation of effector functions of natural killer (NK) cells by controlling signal transduction through CD244/2B4 without effecting its tyrosine phosphorylation; downstream signaling involves PLCG1 and ERK activation (PubMed:24687958). Activation of SLAMF7-mediated NK cell function does not effect receptor tyrosine phosphorylation but distal signaling (By similarity). In the context of NK cell-mediated cytotoxicity does not enhance conjugate formation with target cells but stimulates polarization of the microtubule-organizing

center and cytotoxic granules toward the NK cell synapse (PubMed:24687958). Negatively regulates CD40-induced cytokine production in dendritic cells downstream of SLAM family receptors probably by inducing activation of the PI3K pathway to inhibit p38 MAPK and JNK activation (By similarity).

SH2D1B Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

SH2D1B Antibody (Center) Blocking Peptide - Images

SH2D1B Antibody (Center) Blocking Peptide - Background

SH2D1B plays a role in controlling signal transduction through at least four receptors, CD84, CD150, CD229 and CD244, expressed on the surface of professional antigen-presenting cells.

SH2D1B Antibody (Center) Blocking Peptide - References

Morra,M., et.al., Annu. Rev. Immunol. 19, 657-682 (2001)Tangye,S.G., et.al., Eur. J. Immunol. 32 (6), 1640-1649 (2002)