

Datasheet for ABIN7562302
SH2D1B Protein (AA 1-132) (His tag)



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Overview

Quantity:	1 mg
Target:	SH2D1B
Protein Characteristics:	AA 1-132
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SH2D1B protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Sh2d1b Protein expressed in mammalien cells.
Sequence:	MDLPYYHGCL TKRECEALLL KGGVDGNFLI RDSSEVPGAL CLCVSFKKLV YSYRIFREKH GYYRIETDAH TPRTIFPNLQ ELVSKYGKPG QGLVHLSNP IMRNNLCQRG RRMELELNVY ENTDEEYVDV LP Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• Protein expressed in mammalien cells and purified in one-step affinity chromatography• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.• State-of-the-art algorithm used for plasmid design (Gene synthesis).

Product Details

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris Page, Western Blot

Grade: custom-made

Target Details

Target: SH2D1B

Alternative Name: Sh2d1b ([SH2D1B Products](#))

Background: SH2 domain-containing protein 1B (EWS/FLI1-activated transcript 2) (EAT-2),FUNCTION: Cytoplasmic adapter regulating receptors of the signaling lymphocytic activation molecule (SLAM) family such as CD84, SLAMF1, LY9 and CD244. 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. However, conflicting results are reported which may reflect the use of different strain backgrounds. Proposed to act as an inhibitor of CD244-mediated NK cell function including cytotoxicity and IFN-gamma production, the latter found also by triggering KLRA4 and KLRK1 next to CD244 (PubMed:16127454). Seems to positively regulate CD244- and CD84-dependent NK cell functions implicating CD244-mediated phosphorylation of VAV1. Activation of SLAMF7-mediated NK cell function does not effect receptor tyrosine phosphorylation but distal signaling (PubMed:19151721, PubMed:20962259, PubMed:24687958). 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 (PubMed:26432891). {ECO:0000250|UniProtKB:O14796, ECO:0000269|PubMed:16127454, ECO:0000269|PubMed:19151721, ECO:0000269|PubMed:20962259, ECO:0000269|PubMed:24687958,

Target Details

ECO:0000269|PubMed:26432891}.

Molecular Weight: 15.3 kDa

UniProt: [O35324](#)

Pathways: [Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months