

# SH2D1B Rabbit pAb

SH2D1B Rabbit pAb

Catalog # AP57647

## Product Information

---

|                                |                                                                                                                                                                                                                                                                      |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>             | IHC-P, IHC-F, IF                                                                                                                                                                                                                                                     |
| <b>Primary Accession</b>       | <a href="#">O14796</a>                                                                                                                                                                                                                                               |
| <b>Predicted</b>               | Rat, Human, Mouse                                                                                                                                                                                                                                                    |
| <b>Host</b>                    | Rabbit                                                                                                                                                                                                                                                               |
| <b>Clonality</b>               | Polyclonal                                                                                                                                                                                                                                                           |
| <b>Calculated MW</b>           | 15297                                                                                                                                                                                                                                                                |
| <b>Physical State</b>          | Liquid                                                                                                                                                                                                                                                               |
| <b>Immunogen</b>               | KLH conjugated synthetic peptide derived from human SH2D1B                                                                                                                                                                                                           |
| <b>Epitope Specificity</b>     | 21-100/132                                                                                                                                                                                                                                                           |
| <b>Isotype</b>                 | IgG                                                                                                                                                                                                                                                                  |
| <b>Purity</b>                  | affinity purified by Protein A                                                                                                                                                                                                                                       |
| <b>Buffer</b>                  | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.                                                                                                                                                                                                    |
| <b>Important Note</b>          | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.                                                                                                                                            |
| <b>Background Descriptions</b> | By binding phosphotyrosines through its free SRC (MIM 190090) homology-2 (SH2) domain, EAT2 regulates signal transduction through receptors expressed on the surface of antigen-presenting cells (Morra et al., 2001 [PubMed 11689425]).[supplied by OMIM, Mar 2008] |

## Additional Information

---

|                    |                                                                                                                                                                                                 |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>     | 117157                                                                                                                                                                                          |
| <b>Other Names</b> | SH2 domain-containing protein 1B, EWS/FLI1-activated transcript 2, EAT-2, SH2D1B, EAT2                                                                                                          |
| <b>Dilution</b>    | IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500<br>0-10000                                                                                                            |
| <b>Storage</b>     | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |

## Protein Information

---

|                 |        |
|-----------------|--------|
| <b>Name</b>     | SH2D1B |
| <b>Synonyms</b> | 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).

## Background

---

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.