

**DENND1B Antibody (N-term)**  
**Synthetic peptide**  
**Catalog # BP10381a****Specification**

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**DENND1B Antibody (N-term) - Product Information**

Primary Accession [Q6P3S1](#)  
Other Accession [NP\\_001182145.1](#), [NP\\_659414.2](#),  
[NP\\_001182144.1](#)

**DENND1B Antibody (N-term) - Additional Information**

**Gene ID** 163486

**Other Names**

DENN domain-containing protein 1B, Connecdenn 2, Protein FAM31B, DENND1B, C1orf218, FAM31B

**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.

**DENND1B Antibody (N-term) - Protein Information**

**Name** DENND1B ([HGNC:28404](#))

**Function**

Guanine nucleotide exchange factor (GEF) for RAB35 that acts as a regulator of T-cell receptor (TCR) internalization in TH2 cells (PubMed:<a href="http://www.uniprot.org/citations/20154091" target="\_blank">20154091</a>, PubMed:<a href="http://www.uniprot.org/citations/20937701" target="\_blank">20937701</a>, PubMed:<a href="http://www.uniprot.org/citations/24520163" target="\_blank">24520163</a>, PubMed:<a href="http://www.uniprot.org/citations/26774822" target="\_blank">26774822</a>). Acts by promoting the exchange of GDP to GTP, converting inactive GDP- bound RAB35 into its active GTP-bound form (PubMed:<a href="http://www.uniprot.org/citations/20154091" target="\_blank">20154091</a>, PubMed:<a href="http://www.uniprot.org/citations/20937701" target="\_blank">20937701</a>). Plays a role in clathrin-mediated endocytosis (PubMed:<a href="http://www.uniprot.org/citations/20154091" target="\_blank">20154091</a>). Controls cytokine production in TH2 lymphocytes by controlling the rate of TCR internalization and routing to endosomes: acts by mediating clathrin-mediated endocytosis of TCR via its interaction with the adapter protein complex 2 (AP-2) and GEF activity (PubMed:<a href="http://www.uniprot.org/citations/26774822" target="\_blank">26774822</a>). Dysregulation leads to impaired TCR down-modulation and recycling, affecting cytokine production

in TH2 cells (PubMed:<a href="http://www.uniprot.org/citations/26774822" target="\_blank">26774822</a>).

**Cellular Location**

Cytoplasm, cytosol. Cytoplasmic vesicle, clathrin-coated vesicle

**Tissue Location**

Highly expressed in dendritic and natural killer cells and at lower levels in other myeloid lineage cells and in pituitary. Significantly up-regulated in effector memory T-cells as compared with naive T-cells.

**DENND1B Antibody (N-term) - Protocols**

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

- [Blocking Peptides](#)

**DENND1B Antibody (N-term) - Images****DENND1B Antibody (N-term) - Background**

Marat, A.L., et al. J. Biol. Chem. 285(14):10627-10637(2010) Sleiman, P.M., et al. N. Engl. J. Med. 362(1):36-44(2010) Venter, J.C., et al. Science 291(5507):1304-1351(2001)

**DENND1B Antibody (N-term) - References**

Clathrin (see MIM 118955)-mediated endocytosis is a major mechanism for internalization of proteins and lipids. Members of the connectin family, such as DENND1B, function as guanine nucleotide exchange factors (GEFs) for the early endosomal small GTPase RAB35 (MIM 604199) and bind to clathrin and clathrin adaptor protein-2 (AP2; see MIM 601024). Thus, connectins link RAB35 activation with the clathrin machinery (Marat and McPherson, 2010 [PubMed 20154091]).