

DEF6 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP16557b**Specification**

DEF6 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q9H4E7](#)**DEF6 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 50619**Other Names**

Differentially expressed in FDCP 6 homolog, DEF-6, IRF4-binding protein, DEF6, IBP

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.

DEF6 Antibody (C-term) Blocking Peptide - Protein Information**Name** DEF6**Synonyms** IBP**Function**

Phosphatidylinositol 3,4,5-trisphosphate-dependent guanine nucleotide exchange factor (GEF) which plays a role in the activation of Rho GTPases RAC1, RhoA and CDC42 (PubMed:12651066, PubMed:15023524). Can regulate cell morphology in cooperation with activated RAC1 (By similarity). Involved in immune homeostasis by ensuring proper trafficking and availability of T-cell regulator CTLA-4 at T-cell surface (PubMed:31308374). Plays a role in Th2 (T helper cells) development and/or activation, perhaps by interfering with ZAP70 signaling (By similarity).

Cellular Location

Cytoplasm. Cell membrane Nucleus. Cytoplasm, cytoskeleton. Cytoplasm, perinuclear region. Cell projection, filopodium. Note=Recruited to the plasma membrane upon binding phosphatidylinositol 3,4,5-trisphosphate (PubMed:15023524). Binds to actin filaments (PubMed:15023524)

Tissue Location

Broadly expressed in the immune system. Highly expressed in T cells (PubMed:31308374).

DEF6 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

DEF6 Antibody (C-term) Blocking Peptide - Images**DEF6 Antibody (C-term) Blocking Peptide - Background**

DEF6, or IBP, is a guanine nucleotide exchange factor (GEF) for RAC (MIM 602048) and CDC42 (MIM 116952) that is highly expressed in B and T cells (Gupta et al., 2003 [PubMed12923183]).

DEF6 Antibody (C-term) Blocking Peptide - References

Han, S., et al. Hum. Immunol. 71(7):727-730(2010) Rajaraman, P., et al. Cancer Epidemiol. Biomarkers Prev. 19(5):1356-1361(2010) Zhao, J., et al. BMC Med. Genet. 11, 96 (2010) :Zhang, Z., et al. Cancer Epidemiol 33(2):130-136(2009) Rajaraman, P., et al. Cancer Epidemiol. Biomarkers Prev. 18(5):1651-1658(2009)