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DEF6 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16557b

Product Information

Application	WB, E
Primary Accession	Q9H4E7
Other Accession	Q8C2K1, NP_071330.3
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB36140
Calculated MW	73910
Antigen Region	500-528

Additional Information

Gene ID	50619
Other Names	Differentially expressed in FDCP 6 homolog, DEF-6, IRF4-binding protein, DEF6, IBP
Target/Specificity	This DEF6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 500-528 amino acids from the C-terminal region of human DEF6.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	DEF6 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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).

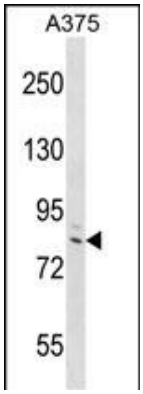
Background

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 [PubMed 12923183]).

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)
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Images



DEF6 Antibody (C-term) (Cat. #AP16557b) western blot analysis in A375 cell line lysates (35ug/lane).This demonstrates the DEF6 antibody detected the DEF6 protein (arrow).

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