

**Goat Anti-IBP / DEF6 Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1549a****Specification**

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**Goat Anti-IBP / DEF6 Antibody - Product Information**

Application	WB, E
Primary Accession	<a href="#">Q9H4E7</a>
Other Accession	<a href="#">NP_071330</a> , <a href="#">50619</a> , <a href="#">23853 (mouse)</a>
Reactivity	Human
Predicted	Mouse, Rat, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	73910

**Goat Anti-IBP / DEF6 Antibody - Additional Information****Gene ID** 50619**Other Names**

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

**Dilution**

WB~~1:1000

E~~N/A

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-IBP / DEF6 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-IBP / DEF6 Antibody - 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:<a href="http://www.uniprot.org/citations/12651066" target="\_blank">12651066</a>, PubMed:<a href="http://www.uniprot.org/citations/15023524" target="\_blank">15023524</a>). 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:<a href="http://www.uniprot.org/citations/31308374" target="\_blank">31308374</a>). 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).

### **Goat Anti-IBP / DEF6 Antibody - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **Goat Anti-IBP / DEF6 Antibody - Images**



AF1549a (1 µg/ml) staining of Human Thymus lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

### **Goat Anti-IBP / DEF6 Antibody - 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]).

**Goat Anti-IBP / DEF6 Antibody - References**

The role of height-associated loci identified in genome wide association studies in the determination of pediatric stature. Zhao J, et al. BMC Med Genet, 2010 Jun 14. PMID 20546612.  
Polymorphisms in innate immunity genes and risk of childhood leukemia. Han S, et al. Hum Immunol, 2010 Jul. PMID 20438785.

Risk of meningioma and common variation in genes related to innate immunity. Rajaraman P, et al. Cancer Epidemiol Biomarkers Prev, 2010 May. PMID 20406964.

Overexpression of the Interferon regulatory factor 4-binding protein in human colorectal cancer and its clinical significance. Zhang Z, et al. Cancer Epidemiol, 2009 Aug. PMID 19679060.

Common variation in genes related to innate immunity and risk of adult glioma. Rajaraman P, et al. Cancer Epidemiol Biomarkers Prev, 2009 May. PMID 19423540.