

Goat Anti-GEF5 Antibody
Peptide-affinity purified goat antibody
Catalog # AF1475a**Specification**

Goat Anti-GEF5 Antibody - Product Information

Application	WB, E
Primary Accession	Q12774
Other Accession	NP_005426 , 7984
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	176799

Goat Anti-GEF5 Antibody - Additional Information**Gene ID** 7984**Other Names**

Rho guanine nucleotide exchange factor 5, Ephexin-3, Guanine nucleotide regulatory protein TIM, Oncogene TIM, Transforming immortalized mammary oncogene, p60 TIM, ARHGEF5, TIM

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-GEF5 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-GEF5 Antibody - Protein Information**Name** ARHGEF5**Synonyms** TIM**Function**

Guanine nucleotide exchange factor which activates Rho GTPases (PubMed:15601624). Strongly activates RHOA (PubMed:15601624). Also strongly activates RHOB, weakly activates RHOC and RHOG and shows no effect on RHOD, RHOV, RHOQ or RAC1 (By similarity). Involved in regulation of cell shape and actin cytoskeletal organization (PubMed:15601624). Plays a role in actin organization by generating a loss of actin stress fibers and the formation of membrane ruffles and filopodia (PubMed:14662653). Required for SRC-induced podosome formation (By similarity). Involved in positive regulation of immature dendritic cell migration (By similarity).

Cellular Location

Cytoplasm. Nucleus Cell projection, podosome {ECO:0000250|UniProtKB:E9Q7D5}

Tissue Location

Ubiquitously expressed with highest levels in placenta. High levels are also found in colon, kidney, trachea, prostate, liver, pancreas, pituitary gland, thyroid gland and mammary gland. In fetal tissues, expressed at high levels in kidney, lung and liver (PubMed:15601624). Expressed at low levels in lung and heart (PubMed:14662653).

Goat Anti-GEF5 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-GEF5 Antibody - Images



AF1475a (0.1 µg/ml) staining of HeLa Lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-GEF5 Antibody - Background

Rho GTPases play a fundamental role in numerous cellular processes initiated by extracellular stimuli that work through G protein coupled receptors. The encoded protein may form a complex with G proteins and stimulate Rho-dependent signals. This protein may be involved in the control of cytoskeletal organization.

Goat Anti-GEF5 Antibody - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.

Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.

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Disturbance of circadian gene expression in hepatocellular carcinoma. Lin YM, et al. Mol Carcinog, 2008 Dec. PMID 18444243.

Time-resolved mass spectrometry of tyrosine phosphorylation sites in the epidermal growth factor receptor signaling network reveals dynamic modules. Zhang Y, et al. Mol Cell Proteomics, 2005 Sep. PMID 15951569.