

ARHGEF5 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16745B**Specification**

ARHGEF5 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	Q12774
Other Accession	NP_005426.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	176799
Antigen Region	1503-1530

ARHGEF5 Antibody (C-term) - 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

Target/Specificity

This ARHGEF5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1503-1530 amino acids from the C-terminal region of human ARHGEF5.

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

ARHGEF5 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

ARHGEF5 Antibody (C-term) - 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

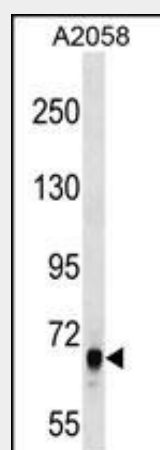
Ubiquitously expressed with highest levels in placenta. High levels are also found in colon, kidney, trachea, prostate, liver, pancreas, pituitary gland, thyroid gland and mammary gland. In fetal tissues, expressed at high levels in kidney, lung and liver (PubMed:[15601624](#)). Expressed at low levels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

ARHGEF5 Antibody (C-term) - 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](#)

ARHGEF5 Antibody (C-term) - Images



ARHGEF5 Antibody (C-term) (Cat. #AP16745b) western blot analysis in A2058 cell line lysates (35ug/lane). This demonstrates the ARHGEF5 antibody detected the ARHGEF5 protein (arrow).

ARHGEF5 Antibody (C-term) - 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.

ARHGEF5 Antibody (C-term) - References

Bailey, S.D., et al. Diabetes Care (2010) In press :
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)
Wang, Z., et al. J. Biol. Chem. 284(42):28599-28606(2009)
Lin, Y.M., et al. Mol. Carcinog. 47(12):925-933(2008)
Zhang, Y., et al. Mol. Cell Proteomics 4(9):1240-1250(2005)