

ARHGEF5 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51843**Specification**

ARHGEF5 Antibody - Product Information

Application	WB, E
Primary Accession	Q12774
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	60 KDa

ARHGEF5 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

Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human ARHGEF5. The exact sequence is proprietary.

Dilution

WB~~1:1000

E~~N/A

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

ARHGEF5 Antibody - Protein Information**Name** ARHGEF5**Synonyms** TIM**Function**

Guanine nucleotide exchange factor which activates Rho GTPases (PubMed: [15601624](http://www.uniprot.org/citations/15601624)). Strongly activates RHOA (PubMed: [15601624](http://www.uniprot.org/citations/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](#)).

[15601624](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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 - 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 - Images**ARHGEF5 Antibody - References**

Chan A.M.-L., et al. Oncogene 9:1057-1063(1994).
Jikuya H., et al. Submitted (APR-2004) to the EMBL/GenBank/DDBJ databases.
Hillier L.W., et al. Nature 424:157-164(2003).
Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Sahin M., et al. Neuron 46:191-204(2005).