

Rabbit ARHGEF5 Polyclonal Antibody | anti-ARHGEF5 antibody

ARHGEF5 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325086	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

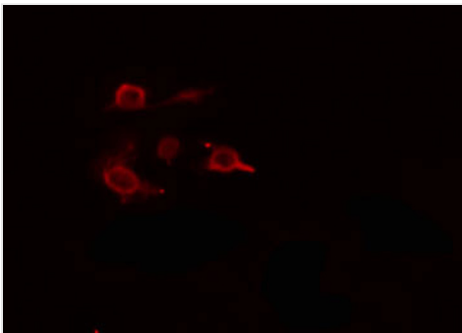
PRODUCT SYNONYMS

ARHGEF5; Polyclonal Antibody; ARHGEF5 Antibody; ARHG5_HUMAN; ARHGEF 5; DKFZp686N1969; ephexin 3; Ephexin-3; GEF 5; GEF5; Guanine nucleotide regulatory protein TIM; Oncogene TIM; P60; p60 TIM; Rho guanine nucleotide exchange factor (GEF) 5; Rho guanine nucleotide exchange factor 5; TIM 1; TIM; TIM1; Transforming immortalized mammary oncogene; anti-ARHGEF5 antibody

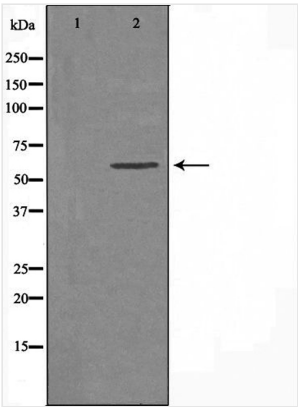
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ARHGEF5 antibody detects endogenous levels of total ARHGEF5
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1597
Applicable Applications for anti-ARHGEF5 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Nucleus
Tissue Specificity	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).
Predicted Cross Reactivity	Rabbit, Dog
Similarity	Rabbit (89%), Dog (89%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)
AAA325086 staining RAW264.7 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)
Western blot analysis of extracts from RAW264.7 cells, using ARHGEF5 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-ARHGEF5 antibody	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). Subunit Structure: Interacts with SRC (By similarity). Forms a ternary complex with SRC and the PI3K 85 kDa subunit (By similarity). Interacts with and is activated by the heterodimer formed by GNB1 and GNG2 (By similarity). Interacts with ODAM (via C-terminus) (PubMed:25911094). Interacts with RHOA (By similarity). Post-translational Modifications: Activation of SRC induces tyrosine phosphorylation of ARHGEF5. Similarity: The PH domain binds to phosphoinositides and is essential for podosome formation.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	50959191
NCBI GeneID	7984
NCBI Accession #	NP_005426.2
NCBI GenBank Nucleotide #	NM_005435.3
UniProt Accession #	Q12774; Q6ZML7; A6NNJ2
Molecular Weight	Observed: 60 kD Predicted: 177 kDa
NCBI Official Full Name	rho guanine nucleotide exchange factor 5
NCBI Official Synonym Full Names	Rho guanine nucleotide exchange factor 5
NCBI Official Symbol	ARHGEF5
NCBI Official Synonym Symbols	P60; TIM; GEF5; TIM1
NCBI Protein Information	rho guanine nucleotide exchange factor 5
UniProt Protein Name	Rho guanine nucleotide exchange factor 5
UniProt Gene Name	ARHGEF5
UniProt Synonym Gene Names	TIM

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/arhgef5-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/325086>