

Rabbit ARHGEF5 Polyclonal Antibody | anti-ARHGEF5 antibody

Anti-ARHGEF5 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127062	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

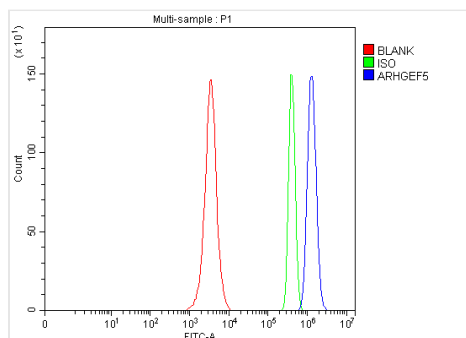
PRODUCT SYNONYMS

ARHGEF5; Polyclonal Antibody; Anti-ARHGEF5 Antibody Picoband; anti-ARHGEF5 antibody

PRODUCT SPECIFICATIONS

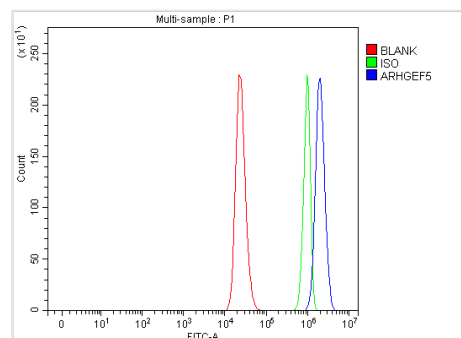
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-ARHGEF5 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human ARHGEF5 recombinant protein (Position: D1555-A1597). Human ARHGEF5 shares 97.6% amino acid (aa) sequence identity with mouse ARHGEF5.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.

IMAGES



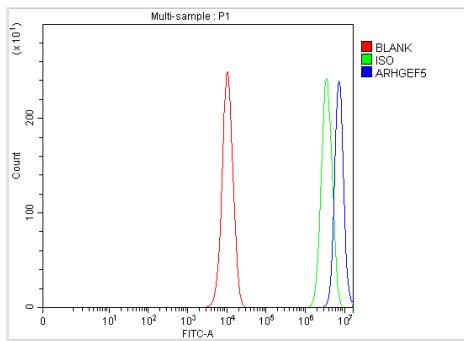
FCM/FACS (Flow Cytometry)

Figure 5. Flow Cytometry analysis of RAW264.7 cells using anti-ARHGEF5 antibody (AAA127062). Overlay histogram showing RAW264.7 cells stained with AAA127062 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ARHGEF5 Antibody (AAA127062, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



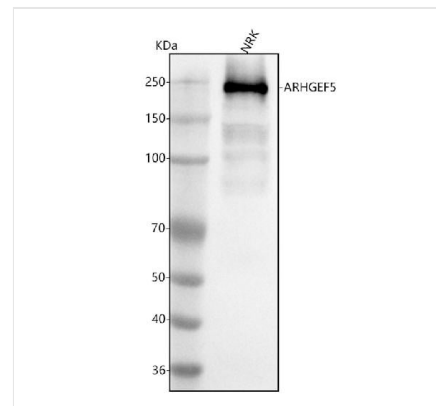
FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of PC-12 cells using anti-ARHGEF5 antibody (AAA127062). Overlay histogram showing PC-12 cells stained with AAA127062 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ARHGEF5 Antibody (AAA127062, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



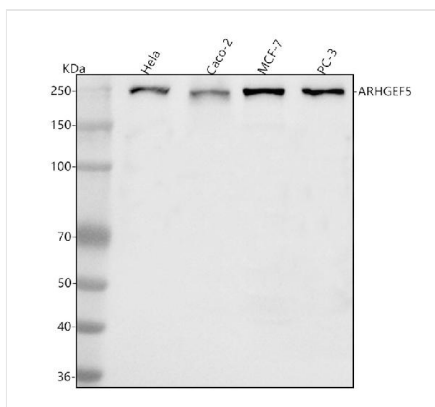
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of PC-3 cells using anti-ARHGEF5 antibody (AAA127062). Overlay histogram showing PC-3 cells stained with AAA127062 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ARHGEF5 Antibody (AAA127062, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 2. Western blot analysis of ARHGEF5 using anti-ARHGEF5 antibody (AAA127062). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: rat NRK whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-ARHGEF5 antigen affinity purified polyclonal antibody (#AAA127062) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for ARHGEF5 at approximately 250 kDa. The expected band size for ARHGEF5 is at 177 kDa.



WB (Western Blot)

Figure 1. Western blot analysis of ARHGEF5 using anti-ARHGEF5 antibody (AAA127062). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human HeLa whole cell lysates, Lane 2: human Caco-2 whole cell lysates, Lane 3: human MCF-7 whole cell lysates, Lane 4: human PC-3 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-ARHGEF5 antigen affinity purified polyclonal antibody (#AAA127062) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for ARHGEF5 at approximately 250 kDa. The expected band size for ARHGEF5 is at 177 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-ARHGEF5 antibody

The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Categories/Family for anti-ARHGEF5 antibody

[Primary Antibodies](#)

References	1. Chan, A. M-L., McGovern, E. S., Catalano, G., Fleming, T. P., Miki, T. Expression cDNA cloning of a novel oncogene with sequence similarity to regulators of small GTP-binding proteins. <i>Oncogene</i> 9: 1057-1063, 1994.2. Debily, M.-A., Camarca, A., Ciullo, M., Mayer, C., El Marhomy, S., Ba, I., Jalil, A., Anzisi, A., Guardiola, J., Piatier-Tonneau, D. Expression and molecular characterization of alternative transcripts of the ARHGEF5/TIM oncogene specific for human breast cancer. <i>Hum. Molec. Genet.</i> 13: 323-334, 2004. 3. Miki, T., Fleming, T. P., Crescenzi, M., Molloy, C. J., Blam, S. B., Reynolds, S. H., Aaronson, S. A. Development of a highly efficient expression cDNA cloning system: application to oncogene isolation. <i>Proc. Nat. Acad. Sci.</i> 88: 5167-5171, 1991.
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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	176,799 Da
NCBI Official Full Name	rho guanine nucleotide exchange factor 5
NCBI Official Synonym Full Names	Rho guanine nucleotide exchange factor (GEF) 5
NCBI Official Symbol	ARHGEF5
NCBI Official Synonym Symbols	P60; TIM; GEF5; TIM1
NCBI Protein Information	rho guanine nucleotide exchange factor 5; p60 TIM; ephexin-3; oncogene TIM; guanine nucleotide regulatory protein TIM; transforming immortalized mammary oncogene
UniProt Protein Name	Rho guanine nucleotide exchange factor 5
UniProt Gene Name	ARHGEF5
UniProt Synonym Gene Names	TIM
UniProt Entry Name	ARHG5_HUMAN

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