

Rabbit ARHGEF7 Polyclonal Antibody | anti-ARHGEF7 antibody

Anti-ARHGEF7 Antibody Picoband

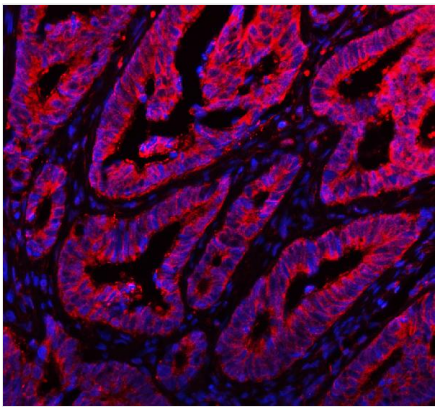
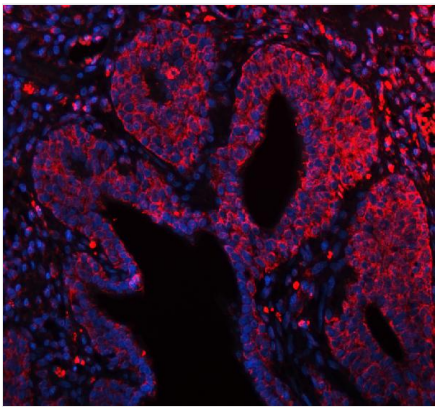
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19780	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

ARHGEF7; Polyclonal Antibody; Anti-ARHGEF7 Antibody Picoband; anti-ARHGEF7 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-ARHGEF7 antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA
Application Notes	WB: 0.25-0.5ug/ml, Human, Mouse, Rat IHC: 2-5ug/ml, Human ICC/IF: 5ug/ml, Human IF: 5ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10 ⁶ cells, Human ELISA: 0.1-0.5ug/ml
Immunogen	E coli-derived human ARHGEF7 recombinant protein (Position: S25-N637). Human ARHGEF7 shares 90.4% amino acid (aa) sequence identity with mouse ARHGEF7.
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.

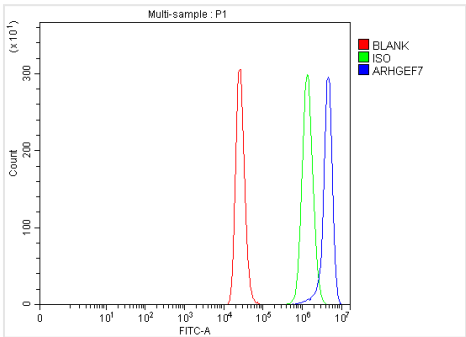


IF (Immunofluorescence)

Figure 15. IF analysis of ARHGEF7 using anti-ARHGEF7 antibody (AAA19780).ARHGEF7 was detected in a paraffin-embedded section of human prostate cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5ug/mL rabbit anti-ARHGEF7 Antibody (AAA19780) overnight at 4 degree C. DyLight®594 Conjugated Goat Anti-Rabbit IgG (BA1142) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

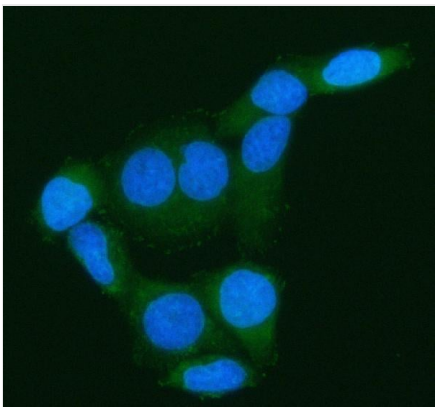
IF (Immunofluorescence)

Figure 14. IF analysis of ARHGEF7 using anti-ARHGEF7 antibody (AAA19780).ARHGEF7 was detected in a paraffin-embedded section of human colon cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5ug/mL rabbit anti-ARHGEF7 Antibody (AAA19780) overnight at 4 degree C. DyLight®594 Conjugated Goat Anti-Rabbit IgG (BA1142) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



FCM (Flow Cytometry)

Figure 13. Flow Cytometry analysis of THP-1 cells using anti-ARHGEF7 antibody (AAA19780).Overlay histogram showing THP-1 cells stained with AAA19780 (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-ARHGEF7 Antibody (AAA19780, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10⁶ cells) 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.



IF (Immunofluorescence)

Figure 12. IF analysis of ARHGEF7 using anti-ARHGEF7 antibody (AAA19780).ARHGEF7 was detected in an immunocytochemical section of HELA cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-ARHGEF7 Antibody (AAA19780) overnight at 4 degree C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

ADDITIONAL INFORMATION

Related Product Information for anti-ARHGEF7 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-ARHGEF7 antibody	Primary Antibodies
References	1. Bagrodia, S., Taylor, S. J., Jordon, K. A., Van Aelst, L., Cerione, R. A. A novel regulator of p21-activated kinases. J. Biol. Chem. 273: 23633-23636, 1998.2. Feng, Q., Baird, D., Peng, X., Wang, J., Ly, T., Guan, J.-L., Cerione, R. A. Cool-1 functions as an essential regulatory node for EGF receptor- and Src-mediated cell growth. Nature Cell Biol. 8: 945-956, 2006.3. Manser, E., Loo, T.-H., Koh, C.-G., Zhao, Z.-S., Chen, X.-Q., Tan, L., Tan, I., Leung, T., Lim, L. PAK kinases are ly coupled to the PIX family of nucleotide exchange factors. Molec. Cell 1: 183-192, 1998.

NCBI AND UNIPROT INFORMATION

NCBI GI #	166064034
NCBI GeneID	8874
NCBI Accession #	NP_001106983.1
NCBI GenBank Nucleotide #	NM_001113511.1
UniProt Accession #	Q14155; Q3LIA4; Q5W9H0; Q6P9G3; Q6PII2; Q86W63; Q8N3M1; B1ALK6; B1ALK8
Molecular Weight	90,012 Da
NCBI Official Full Name	rho guanine nucleotide exchange factor 7 isoform c
NCBI Official Synonym Full Names	Rho guanine nucleotide exchange factor (GEF) 7
NCBI Official Symbol	ARHGEF7
NCBI Official Synonym Symbols	P50; P85; PAK3; PIXB; COOL1; P50BP; COOL-1; P85SPR; BETA-PIX; P85COOL1; Nbla10314
NCBI Protein Information	rho guanine nucleotide exchange factor 7; PAK-interacting exchange factor beta; SH3 domain-containing proline-rich protein
UniProt Protein Name	Rho guanine nucleotide exchange factor 7
UniProt Gene Name	ARHGEF7
UniProt Synonym Gene Names	COOL1; KIAA0142; P85SPR; PAK3BP; PIXB
UniProt Entry Name	ARHG7_HUMAN

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.