

Rabbit ARHGEF7 Polyclonal Antibody | anti-ARHGEF7 antibody

ARHGEF7 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326028	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

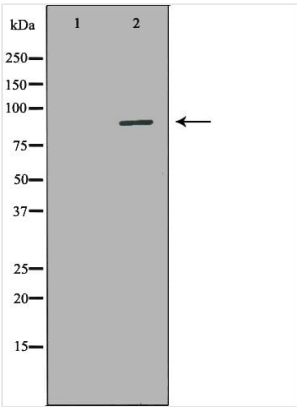
PRODUCT SYNONYMS

ARHGEF7; Polyclonal Antibody; ARHGEF7 Antibody; ARHG7; ARHG7_HUMAN; ARHGEF 7; Arhgef7; Beta pix; Beta-Pix; betaPix; betaPix-b; betaPix-c; Cool; COOL-1; COOL1; DKFZp686C12170; DKFZp761K1021; KIAA0142; KIAA0412; mKIAA0142; Nbla10314; P50; P50BP; p85; P85COOL1; P85SPR; PAK interacting exchange factor beta; PAK-interacting exchange factor beta; PAK3; Pak3bp; PIX; PIXB; Rho guanine nucleotide exchange factor (GEF) 7; Rho guanine nucleotide exchange factor (GEF) 7b; Rho guanine nucleotide exchange factor (GEF7); Rho guanine nucleotide exchange factor 7; SH3 domain containing proline rich protein; anti-ARHGEF7 antibody

PRODUCT SPECIFICATIONS

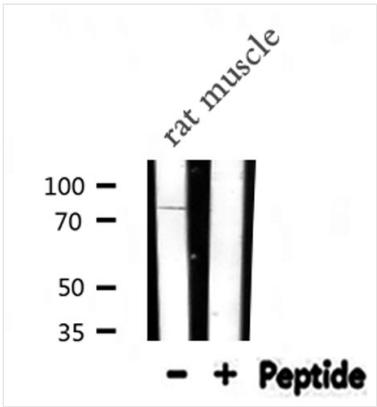
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ARHGEF7 antibody detects endogenous levels of total ARHGEF7
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	803
Applicable Applications for anti-ARHGEF7 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ARHGEF7
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



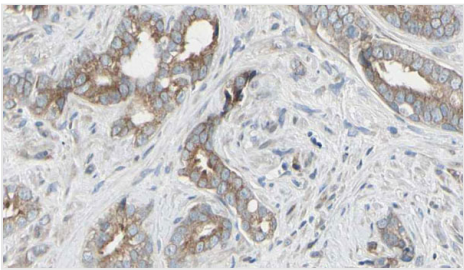
WB (Western Blot)

Western blot analysis of K562 whole cell lysates, using ARHGEF7 Antibody. The lane on the left is treated with the antigen-specific peptide.



WB (Western Blot)

Western blot analysis of ARHGEF7 expression in Rat muscle lysate



IHC (Immunohistochemistry)

AAA326028 at 1/100 staining Human prostate tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-ARHGEF7 antibody

Description: Cool/Pix proteins comprise a family of guanine nucleotide exchange factors (GEFs) localized to focal adhesions. The family consists of two isoforms, cool2/alphapix and cool1/betaPix, the latter having two splice variants that vary in their carboxy termini (1). Cool1/betaPix, like other GEFs, has a DH (Dbl homology) domain, which allows binding of small GTPases and GDP/GTP exchange, and a PH (Pleckstrin homology) domain, which is important in regulating subcellular localization. Cool1/betaPix also has an SH3 domain, which binds to the PAK kinase, a downstream effector of cdc42 and Rac (3, 4). Phosphorylation of cool1/betaPix by PAK2 downstream of MAPK signaling alters the localization of a complex containing PAK2 and cool-1/betaPix, regulating formation of growth cones in response to growth factors (4). Growth factor induced activation of Rac1 via cool1/betaPix was later shown to occur independently of subcellular localization (5). Endothelin-1 stimulation of mesangial cells stimulates the protein kinase A (PKA) pathway, resulting in translocation of cool-1/betaPix and activation of cdc42 (6). Function: Acts as a RAC1 guanine nucleotide exchange factor (GEF) and can induce membrane ruffling. Functions in cell migration, attachment and cell spreading. Promotes targeting of RAC1 to focal adhesions (By similarity). May function as a positive regulator of apoptosis. Downstream of NMDA receptors and CaMKK-CaMK1 signaling cascade, promotes the formation of spines and synapses in hippocampal neurons. Subunit Structure: Interacts with PAK kinases through the SH3 domain. Interacts with GIT1 and TGFB111. Interacts with PTK2/FAK1 and RAC1. Interacts with ITCH and PARVB (By similarity). Interacts with unphosphorylated PAK1. Interacts with SCRIB; interaction is direct and may play a role in regulation of apoptosis. Interacts with FRMPD4 (via N-terminus). Interacts with CaMK1. Interacts with BIN2. Isoform 1 and isoform 5 interact with SNX27. Post-translational Modifications: Phosphorylated by PTK2/FAK1; this promotes interaction with RAC1 (By similarity). Phosphorylated on Ser-694 by CaMK1; enhancement of GEF activity and downstream activation of RAC1.

NCBI AND UNIPROT INFORMATION

NCBI GI #	166064034
NCBI GeneID	8874

NCBI Accession #	NP_001106983.1
NCBI GenBank Nucleotide #	NM_001113511.2
UniProt Accession #	Q14155 ; Q3LIA4 ; Q5W9H0 ; Q6P9G3 ; Q6PII2 ; Q86W63 ; Q8N3M1 ; B1ALK6 ; B1ALK8
Molecular Weight	Observed: 90 kDa Predicted: 91 kDa
NCBI Official Full Name	rho guanine nucleotide exchange factor 7 isoform c
NCBI Official Synonym Full Names	Rho guanine nucleotide exchange factor 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
UniProt Protein Name	Rho guanine nucleotide exchange factor 7
UniProt Gene Name	ARHGEF7
UniProt Synonym Gene Names	COOL1; KIAA0142; P85SPR; PAK3BP; PIXB

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/arhgef7-antibody-immunohistochemistry-western-blot-elisa/326028>