

Product datasheet for TA326931S

ARHGEF7 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: WB

Reactivity: WB: 1:500-1:2000 Human, Mouse

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

Immunogen: Recombinant protein of human ARHGEF7

Formulation: Store at -20C or -80C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50%

glycerol, pH7.3

Concentration: lot specific

Purification: Affinity purification

Conjugation: Unconjugated

Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Gene Name: Rho guanine nucleotide exchange factor 7

Database Link: NP 003890

Entrez Gene 54126 MouseEntrez Gene 8874 Human

Q14155



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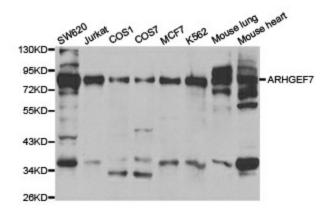
Background:

Cool/Pix proteins comprise a family of guanine nucleotide exchange factors (GEFs) localized to focal adhesions. The family consists of two isoforms, cool2/apix and cool1/ β Pix, the latter having two splice variants that vary in their carboxy termini. Cool1/ β Pix, 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/ β Pix also has an SH3 domain, which binds to the PAK kinase, a downstream effector of cdc42 and Rac. Phosphorylation of cool1/ β Pix by PAK2 downstream of MAPK signaling alters the localization of a complex containing PAK2 and cool-1/ β Pix, regulating formation of growth cones in response to growth factors. Growth factor induced activation of Rac1 via cool1/ β Pix was later shown to occur independently of subcellular localization. Endothelin-1 stimulation of mesangial cells stimulates the protein kinase A (PKA) pathway, resulting in translocation of cool-1/ β Pix and activation of cdc42.

Synonyms: BETA-PIX; COOL-1; COOL1; Nbla10314; P50; P50BP; P85; P85COOL1; P85SPR; PAK3; PIXB

Protein Pathways: Regulation of actin cytoskeleton

Product images:



Western blot analysis of extracts of various cell lines, using ARHGEF7 antibody.