

ARHGEF7

Reactivity: Human Mouse Rat

Tested applications: WB IHC

Recommended Dilution: WB 1:500 - 1:2000 IHC 1:50 - 1:200

Calculated MW: 90kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human ARHGEF7

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

ARHGEF7;BETA-PIX;COOL1;DKFZp686C12170;DKFZp761K1021;KIAA0142;KIAA0412;Nbla10314;P50;P50BP;P85;P85COOL1;P85SPR;PAK3;PIXB ;

Catalog #: A1108

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 8874

Isotype: IgG

Swiss Prot: Q14155

Purity: Affinity purification

For research use only.

Background:

Cool/Pix proteins comprise a family of guanine nucleotide exchange factors (GEFs) localized to focal adhesions. The family consists of two isoforms, cool2/pix and cool1/Pix, the latter having two splice variants that vary in their carboxy termini (1). Cool1/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/Pix also has an SH3 domain, which binds to the PAK kinase, a downstream effector of cdc42 and Rac (3,4). Phosphorylation of cool1/Pix by PAK2 downstream of MAPK signaling alters the localization of a complex containing PAK2 and cool-1/Pix, regulating formation of growth cones in response to growth factors (4). Growth factor induced activation of Rac1 via cool1/Pix 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/Pix and activation of cdc42 (6).

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