

## 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 ;

**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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**Catalog #:**A1108

**Antibody Type:**

Polyclonal Antibody

**Species:**Rabbit

**Gene ID:**8874

**Isotype:**IgG

**Swiss Prot:**Q14155

**Purity:**Affinity purification

For research use only.