

ARHGEF7 Antibody

Catalog No: #32163

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Description

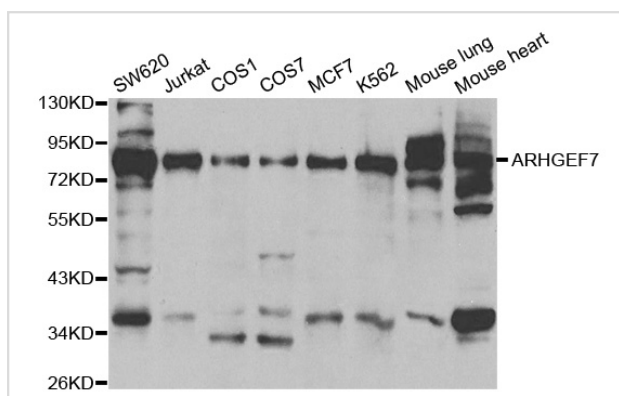
Product Name	ARHGEF7 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB IHC
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of total ARHGEF7 protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human ARHGEF7.
Target Name	ARHGEF7
Other Names	ARHGEF7; BETA-PIX; COOL1; DKFZp686C12170; DKFZp761K1021
Accession No.	Swiss-Prot:Q14155NCBI Gene ID:8874
SDS-PAGE MW	90KD
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

Western blotting: 1:500 - 1:2000

Immunohistochemistry: 1:50 - 1:100

Images



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

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 (1). 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 (3,4). 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 (4). Growth factor induced activation of Rac1 via cool1/ β 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/ β Pix and activation of cdc42 (6).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.