

### Anti-ARHGEF7 Antibody

Rabbit polyclonal antibody to ARHGEF7 Catalog # AP60657

#### Specification

# **Anti-ARHGEF7 Antibody - Product Information**

Application Primary Accession Other Accession Reactivity Host Clonality Calculated MW WB <u>Q14155</u> <u>Q9ES28</u> Human, Mouse, Rat Rabbit Polyclonal 90012

### **Anti-ARHGEF7 Antibody - Additional Information**

Gene ID 8874

**Other Names** COOL1; KIAA0142; P85SPR; PAK3BP; PIXB; Rho guanine nucleotide exchange factor 7; Beta-Pix; COOL-1; PAK-interacting exchange factor beta; p85

**Target/Specificity** Recognizes endogenous levels of ARHGEF7 protein.

Dilution WB~~WB (1/500 - 1/1000), IH (1/100 - 1/200)

**Format** Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage Store at -20 °C.Stable for 12 months from date of receipt

### Anti-ARHGEF7 Antibody - Protein Information

Name ARHGEF7

Synonyms COOL1, KIAA0142, P85SPR, PAK3BP, PIXB

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.



### **Cellular Location**

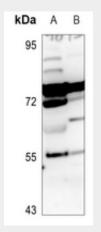
Cell junction, focal adhesion. Cell projection, ruffle. Cytoplasm, cell cortex Cell projection, lamellipodium. Note=Detected at cell adhesions. A small proportion is detected at focal adhesions

# Anti-ARHGEF7 Antibody - Protocols

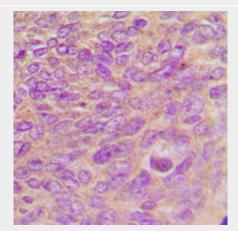
Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- <u>Dot Blot</u>
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

# Anti-ARHGEF7 Antibody - Images



Western blot analysis of ARHGEF7 expression in rat kidney (A), rat testis (B) whole cell lysates.



Immunohistochemical analysis of ARHGEF7 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted



# with DPX.

# Anti-ARHGEF7 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human ARHGEF7. The exact sequence is proprietary.