

ARHG7 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP12266b**Specification**

ARHG7 Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [Q14155](#)**ARHG7 Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 8874**Other Names**

Rho guanine nucleotide exchange factor 7, Beta-Pix, COOL-1, PAK-interacting exchange factor beta, p85, ARHGEF7, COOL1, KIAA0142, P85SPR, PAK3BP, PIXB

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ARHG7 Antibody (C-term) Blocking peptide - 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

ARHG7 Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

ARHG7 Antibody (C-term) Blocking peptide - Images

ARHG7 Antibody (C-term) Blocking peptide - Background

Rho GTPases play a fundamental role in numerous cellular processes triggered by extracellular stimuli that work through Gprotein coupled receptors. The encoded protein belongs to a family of cytoplasmic proteins that activate the Ras-like family of Rho proteins by exchanging bound GDP for GTP. It forms a complex with the small GTP binding protein Rac1 and recruits Rac1 to membrane ruffles and to focal adhesions. This protein can induce membrane ruffling. Multiple alternatively spliced transcript variants encoding different isoforms have been described for this gene.

ARHG7 Antibody (C-term) Blocking peptide - References

Hsu, Y.H., et al. Am. J. Pathol. 176(6):3050-3061(2010) Lee, J.S., et al. J. Biol. Chem. 285(11):8104-8113(2010) Hsu, R.M., et al. Mol. Biol. Cell 21(2):287-301(2010) Johnson, A.D., et al. Hum. Mol. Genet. 18(14):2700-2710(2009) Stolk, L., et al. Nat. Genet. 41(6):645-647(2009)