10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ARHB Antibody (Center) Blocking peptide

Synthetic peptide
Catalog # BP12264c

Specification

ARHB Antibody (Center) Blocking peptide - Product Information

Primary Accession P62745

ARHB Antibody (Center) Blocking peptide - Additional Information

Gene ID 388

Other Names
Rho-related GTP-binding protein RhoB, Rho cDNA clone 6, h6, RHOB, ARH6, ARHB

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.

ARHB Antibody (Center) Blocking peptide - Protein Information

Name RHOB

Synonyms ARH6, ARHB

Function
Mediates apoptosis in neoplastically transformed cells after DNA damage. Not essential for development but affects cell adhesion and growth factor signaling in transformed cells. Plays a negative role in tumorigenesis as deletion causes tumor formation. Involved in intracellular protein trafficking of a number of proteins. Targets PKN1 to endosomes and is involved in trafficking of the EGF receptor from late endosomes to lysosomes. Also required for stability and nuclear trafficking of AKT1/AKT which promotes endothelial cell survival during vascular development. Serves as a microtubule-dependent signal that is required for the myosin contractile ring formation during cell cycle cytokinesis. Required for genotoxic stress-induced cell death in breast cancer cells.

Cellular Location
Late endosome membrane; Lipid-anchor. Cell membrane; Lipid-anchor. Nucleus. Cleavage furrow. Note=Late endosomal membrane (geranylgeranylated form). Plasma membrane (farnesylated form). Also detected at the nuclear margin and in the nucleus Translocates to the equatorial region before furrow formation in a ECT2-dependent manner

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ARHB Antibody (Center) Blocking peptide - Protocols

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

- Blocking Peptides

ARHB Antibody (Center) Blocking peptide - Images

ARHB Antibody (Center) Blocking peptide - Background

ARHB mediates apoptosis in neoplastically transformed cells after DNA damage. Not essential for development but affects cell adhesion and growth factor signaling in transformed cells. Plays a negative role in tumorigenesis as deletion causes tumor formation. Involved in intracellular protein trafficking of a number of proteins. Targets PKN1 to endosomes and is involved in trafficking of the EGF receptor from late endosomes to lysosomes. Also required for stability and nuclear trafficking of AKT1/AKT which promotes endothelial cell survival during vascular development.

ARHB Antibody (Center) Blocking peptide - References

Adly, M.A., et al. J. Cutan. Pathol. 37(7):751-757(2010)Connolly, E.C., et al. Mol. Cancer Res. 8(5):691-700(2010)Zintzaras, E., et al. Am. J. Epidemiol. 171(8):851-858(2010)Kim, C.H., et al. Biochem. Biophys. Res. Commun. 391(2):1182-1186(2010)Takefuji, M., et al. J. Hum. Genet. 55(1):42-49(2010)