

**ARHB Antibody (Center) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP12264c****Specification**

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**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

## **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)