

**ARHH Antibody (Center) Blocking peptide**  
Synthetic peptide  
Catalog # BP5693c

**Specification**

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**ARHH Antibody (Center) Blocking peptide - Product Information**

Primary Accession [O15669](#)  
Other Accession [NP\\_004301.1](#)

**ARHH Antibody (Center) Blocking peptide - Additional Information**

Gene ID 399

**Other Names**

Rho-related GTP-binding protein RhoH, GTP-binding protein TTF, Translocation three four protein, RHOH, ARHH, TTF

**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.

**ARHH Antibody (Center) Blocking peptide - Protein Information**

Name RHOH

Synonyms ARHH, TTF

**Function**

Negative regulator of hematopoietic progenitor cell proliferation, survival and migration. Critical regulator of thymocyte development and T-cell antigen receptor (TCR) signaling by mediating recruitment and activation of ZAP70. Required for phosphorylation of CD3Z, membrane translocation of ZAP70 and subsequent activation of the ZAP70-mediated pathways. Essential for efficient beta-selection and positive selection by promoting the ZAP70-dependent phosphorylation of the LAT signalosome during pre-TCR and TCR signaling. Crucial for thymocyte maturation during DN3 to DN4 transition and during positive selection. Plays critical roles in mast cell function by facilitating phosphorylation of SYK in Fc epsilon RI-mediated signal transduction. Essential for the phosphorylation of LAT, LCP2, PLCG1 and PLCG2 and for Ca(2+) mobilization in mast cells (By similarity). Binds GTP but lacks intrinsic GTPase activity and is resistant to Rho-specific GTPase-activating proteins. Inhibits the activation of NF-kappa-B by TNF and IKKB and the activation of CRK/p38 by TNF. Inhibits activities of RAC1, RHOA and CDC42. Negatively regulates leukotriene production in neutrophils.

#### **Cellular Location**

Cytoplasm. Cell membrane; Lipid-anchor; Cytoplasmic side. Note=Colocalizes together with ZAP70 in the immunological synapse.

#### **Tissue Location**

Expressed only in hematopoietic cells. Present at very high levels in the thymus, less abundant in the spleen, and least abundant in the bone marrow. Expressed at a higher level in the TH1 subtype of T-helper cells than in the TH2 subpopulation. Expressed in neutrophils under inflammatory conditions, such as cystic fibrosis, ulcerative colitis and appendicitis.

#### **ARHH Antibody (Center) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

#### **ARHH Antibody (Center) Blocking peptide - Images**

#### **ARHH Antibody (Center) Blocking peptide - Background**

RHOH is a member of the Ras superfamily of small GTPases. Expression of a chimeric transcript of LAZ3 and this gene has been reported as a result of the translocation t(3;4) in non-Hodgkin's lymphomas. This gene encodes a small G-like protein, and unlike most other small G proteins which are expressed ubiquitously, this gene is transcribed only in hematopoietic cells.

#### **ARHH Antibody (Center) Blocking peptide - References**

Faure, J., et al. *Biochimie* 83(5):409-414(2001) Yousefi, S., et al. *Biochem. Biophys. Res. Commun.* 277(2):401-409(2000) Dallery-Prudhomme, E., et al. *Genomics* 43(1):89-94(1997) Dallery, E., et al. *Oncogene* 10(11):2171-2178(1995)