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RHOH Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP18968b

Specification

RHOH Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q15669

RHOH Antibody (C-term) 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.

RHOH Antibody (C-term) 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.

RHOH Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

RHOH Antibody (C-term) Blocking Peptide - Images

RHOH Antibody (C-term) Blocking Peptide - Background

The protein encoded by this gene is a member of the Rassuperfamily of small GTPases. Expression of a chimeric transcriptof LAZ3 and this gene has been reported as a result of thetranslocation t(3;4) in non-Hodgkin's lymphomas. This gene encodesa small G-like protein, and unlike most other small G proteinswhich are expressed ubiquitously, this gene is transcribed only inhemopoietic cells.

RHOH Antibody (C-term) Blocking Peptide - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Schmidt-Mende, J., et al. Eur. J. Immunol. 40(2):525-529(2010)Sanchez-Aguilera, A., et al. Leukemia 24(1):97-104(2010)Daryadel, A., et al. J. Immunol. 182(10):6527-6532(2009)Iwasaki, T., et al. Eur. J. Haematol. 81(6):454-460(2008)