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Anti-RhoH Antibody

Catalog # AP51475

Product Information

Application	WB
Primary Accession	Q15669
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	21331

Additional Information

Gene ID	399
Other Names	ARHH; TTF; Rho-related GTP-binding protein RhoH; GTP-binding protein TTF; Translocation three four protein
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human RhoH. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

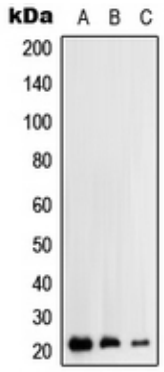
Name	RHOH
Synonyms	ARHH, TTF
Function	Negative regulator of hematopoietic progenitor cell proliferation, survival and migration. Critical regulator of thymocyte development and T-cell antigen receptor (TCR) signaling by mediating recruitment and activation of ZAP70. Required for phosphorylation of CD3Z, 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.

References

Dallery E.,et al.Oncogene 10:2171-2178(1995).
Puhl H.L. III,et al.Submitted (APR-2002) to the EMBL/GenBank/DDBJ databases.
Li X.,et al.Mol. Cell. Biol. 22:1158-1171(2002).
Wu X.,et al.Biochem. Biophys. Res. Commun. 351:328-335(2006).
Daryadel A.,et al.J. Immunol. 182:6527-6532(2009).

Images



Western blot analysis of RhoH expression in HEK293T (A), HepG2 (B), Jurkat (C) whole cell lysates. (Predicted band size: 21 kD; Observed band size: 25 kD)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.