### Overview

**Product name**
Anti-RHOH antibody - C-terminal

**Description**
Rabbit polyclonal to RHOH - C-terminal

**Host species**
Rabbit

**Tested applications**
Suitable for: WB

**Species reactivity**
Reacts with: Human

**Immunogen**
Synthetic peptide conjugated to KLH, corresponding to a region within C terminal amino acids 155-184 of Human RHOH (NP_004301.1).

**Positive control**
ZR-75-1 cell line lysates.

### Properties

**Form**
Liquid

**Storage instructions**

**Storage buffer**
Preservative: 0.09% Sodium azide
Constituent: 99% PBS

**Purity**
Immunogen affinity purified

**Purification notes**
ab139155 is purified through a protein A column, followed by peptide affinity purification.

**Clonality**
Polyclonal

**Isotype**
IgG

### Applications

Our Abpromise guarantee covers the use of ab139155 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB</td>
<td></td>
<td>1/100 - 1/500. Predicted molecular weight: 21 kDa.</td>
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</tbody>
</table>
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 CD3ζ, 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 IκKB and the activation of CRK/p38 by TNF. Inhibits activities of RAC1, RHOA and CDC42. Negatively regulates leukotriene production in neutrophils.

Tissue specificity

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.

Involvement in disease

Note=A chromosomal aberration involving RHOH is found in a non-Hodgkin lymphoma cell line. Translocation t(3;4)(q27;p11) with BCL6.

Sequence similarities

Belongs to the small GTPase superfamily. Rho family.

Domain

The region involved in interaction with ZAP70 is a non-canonical immunoreceptor tyrosine-based activation motif (ITAM).

Post-translational modifications

Phosphorylated on tyrosine by LCK. Phosphorylated by FYN. Phosphorylation enhances the interactions with ZAP70 and SYK and is critical for its function in thymocyte development.

Cellular localization


Images

Western blot - Anti-RHOH antibody - C-terminal (ab139155)

Anti-RHOH antibody - C-terminal (ab139155) at 1/100 dilution + ZR-75-1 cell line lysates at 35 µg

Developed using the ECL technique.

Predicted band size: 21 kDa

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