



## Rho B rabbit pAb

**Cat#: orb768915 (Manual)** 

For research use only. Not intended for diagnostic use.

**Product Name** Rho B rabbit pAb

**Host species** Rabbit

**Applications** WB;ELISA;IHC

**Species Cross-Reactivity** Human; Mouse; Rat

**Recommended dilutions** WB 1:500-2000;IHC-p 1:50-300; ELISA 2000-20000

**Immunogen** The antiserum was produced against synthesized peptide derived from

human RHOB. AA range:99-148

Rho B Polyclonal Antibody detects endogenous levels of Rho B protein. **Specificity** 

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium

azide..

Store at -20°C. Avoid repeated freeze-thaw cycles. **Storage** 

**Protein Name** Rho-related GTP-binding protein RhoB

Gene Name RHOB

Cellular localization

Late endosome membrane; Lipid-anchor. Cell membrane; Lipid-anchor. Nucleus. Cleavage furrow. 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.

The antibody was affinity-purified from rabbit antiserum by affinity-**Purification** 

chromatography using epitope-specific immunogen.





**Clonality** Polyclonal

Concentration 1 mg/ml

Observed band 22kD

Human Gene ID 388

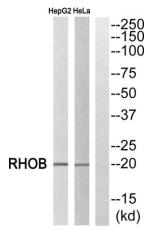
**Human Swiss-Prot Number** P62745

Alternative Names RHOB; ARH6; ARHB; Rho-related GTP-binding protein RhoB; Rho cDNA

clone 6; h6

## Background

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.,miscellaneous:RHOB is one of the targets of farnesyltransferase inhibitors which are currently under investigation as cancer therapeutics. These elevate the levels of geranylgeranylated RHOB and cause mislocalization, leading to apoptosis and antineoplastic effects.,PTM:Prenylation specifies the subcellular location of RHOB. The farnesylated form is localized to the plasma membrane while the geranylgeranylated form is localized to the endosome.,similarity:Belongs to the small GTPase superfamily. Rho family.,subcellular location:Late endosomal membrane (geranylgeranylated form). Plasma membrane (farnesylated form). Also detected at the nuclear margin and in the nucleus.,subunit:Binds ROCK1 and ROCK2. Also binds PKN1/PRK1. Interacts with ARGGEF3, RTKN and AKAP13.,

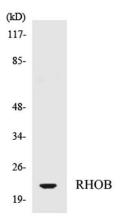


Western blot analysis of RHOB Antibody. The lane on the right is blocked with the RHOB peptide.





Explore. Bioreagents.



Western blot analysis of the lysates from HepG2 cells using RHOB antibody.



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).