

For Research Use Only

RHOB Recombinant monoclonal antibody, PBS Only

Catalog Number: 86663-3-PBS



Basic Information

Catalog Number: 86663-3-PBS	GenBank Accession Number: BC066954	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 388	CloneNo.: 251662A8
Source: Rabbit	UNIPROT ID: P62745	
Isotype: IgG	Full Name: ras homolog gene family, member B	
Immunogen Catalog Number: AG5593	Calculated MW: 22 kDa	
	Observed MW: 22-26 kDa	

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human, mouse, rat

Background Information

Rho-related GTP-binding protein RhoB (RHOB) is also named ARH6, ARHB and Rho cDNA clone 6 (h6). RhoB was the first member of the Rho family to be implicated in endosomal trafficking. One study showed that RhoB localizes and activates its downstream target, serine/threonine kinase (PRK1), on endosomes, and acts through this signaling pathway to disrupt the trafficking of internalized EGF receptor from endosomes to a prelysosomal compartment (PMID: 29385717). RhoB is known to be part of the immediate early genetic response to epidermal growth factor, transforming growth factor β , Src activation, or genotoxic stress (PMID: 9545335, PMID: 10679283). RhoB was shown to have potential implications for EGF signaling by targeting the activated EGF receptors to the lysosome, which represents an "off-switch" for mitogenic signals (PMID: 1050858). RhoB was also demonstrated to exert a negative regulatory influence on TGF- β -induced transcriptional activation (PMID: 9545335). The activity of the RhoB promoter was stimulated by genotoxic treatments indicating its role in the cellular response to DNA damage (PMID: 9388198).

Storage

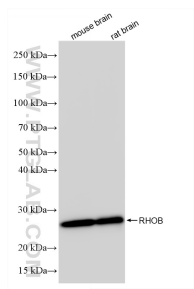
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

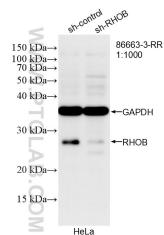
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

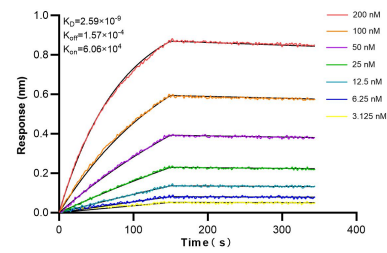
Selected Validation Data



mouse brain tissue were subjected to SDS PAGE followed by western blot with 86663-3-RR (RHOB antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86663-3-PBS in a different storage buffer formulation.



WB result of RHOB antibody (86663-3-RR; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-RHOB transfected HeLa cells. This data was developed using the same antibody clone with 86663-3-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 86663-3-RR against Human RHOB were performed. The affinity constant is 2.59 nM.