

RHOB Recombinant monoclonal antibody

Catalog Number: 86663-3-RR

Basic Information

Catalog Number: 86663-3-RR	GenBank Accession Number: BC066954	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 388	CloneNo.: 251662A8
Source: Rabbit	UNIPROT ID: P62745	Recommended Dilutions: WB: 1:5000-1:50000
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, ELISA	Positive Controls: WB : mouse brain tissue, HeLa cells, rat brain tissue
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

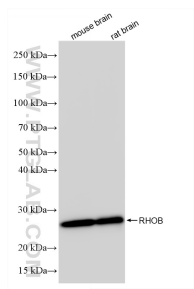
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

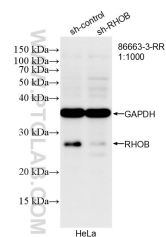
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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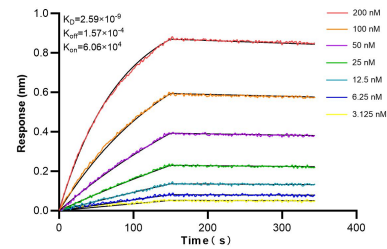
Selected Validation Data



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.



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.



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