

For Research Use Only

Multi-rAb® RHOB Multi-Recombinant antibody

Catalog Number: RMX00061



Basic Information

Catalog Number: RMX00061	GenBank Accession Number: BC066954	Purification Method: N/A
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 388	Recommended Dilutions: WB: 1:5000-1:50000 IHC: 1:50-1:500 IF/ICC: 1:250-1:1000
Source: Rabbit	UNIPROT ID: P62745	
Isotype: IgG	Full Name: ras homolog gene family, member B	
	Calculated MW: 22 kDa	
	Observed MW: 22 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Species Specificity:
human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse brain tissue, rat brain tissue
IHC : mouse brain tissue, rat brain tissue
IF/ICC : MCF-7 cells,

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.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

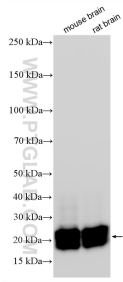
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com
W: ptglab.com

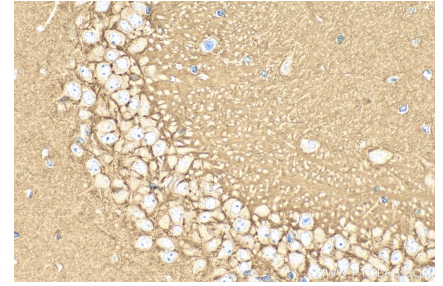
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data

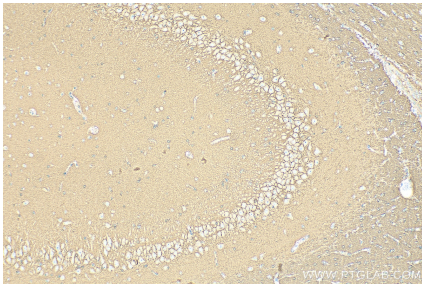


Various lysates were subjected to SDS PAGE followed by western blot with RMX00061 (RHOB antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.

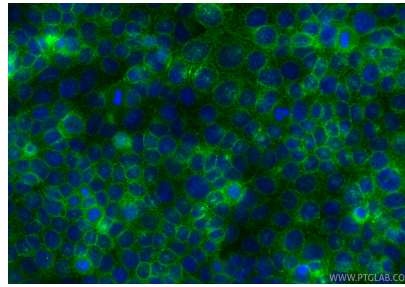
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using RMX00061 (RHOB antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using RMX00061 (RHOB antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using RMX00061 (RHOB antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using RHOB antibody (RMX00061) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).