

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
Source: Rabbit	GeneID (NCBI): 388	Recommended Dilutions: WB: 1:5000-1:50000 IHC: 1:50-1:500 IF/ICC: 1:250-1:1000
Isotype: IgG	UNIPROT ID: P62745	
	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

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

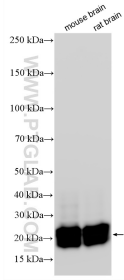
T: 4006900926

E: Proteintech-CN@ptglab.com

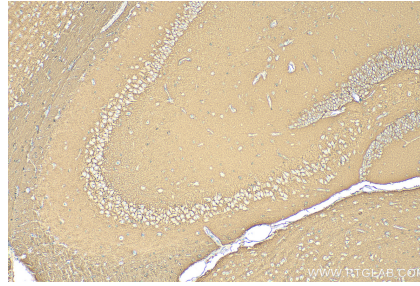
W: ptgcn.com

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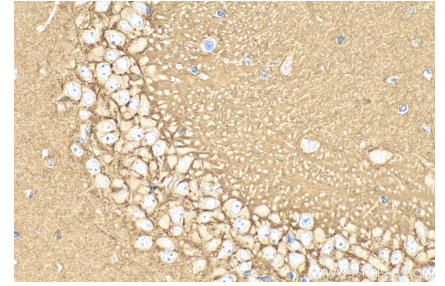
Selected Validation Data



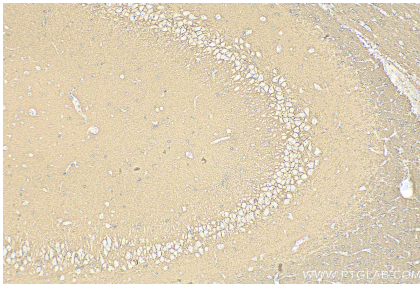
Various lysates were subjected to SDS PAGE followed by western blot with RMX00061 (RHOB antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.



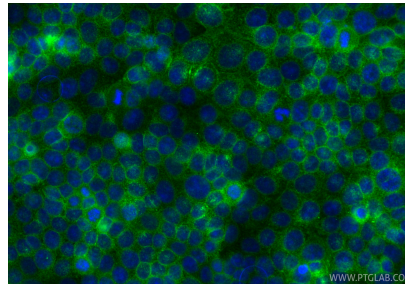
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using RMX00061 (RHOB antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).