

For Research Use Only

RAB1B Recombinant antibody

Catalog Number: 83687-4-RR



Basic Information

Catalog Number: 83687-4-RR	GenBank Accession Number: BC071169	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 81876	CloneNo.: 240635D9
Source: Rabbit	UNIPROT ID: Q9H0U4	Recommended Dilutions: WB 1:5000-1:50000
Isotype: IgG	Full Name: RAB1B, member RAS oncogene family	
Immunogen Catalog Number: AG12197	Calculated MW: 201 aa, 22 kDa	
	Observed MW: 22 kDa	

Applications

Tested Applications:
WB, FC (Intra), ELISA

Species Specificity:
human, mouse, rat

Positive Controls:
WB : HeLa cells, A431 cells, CHO cells, A375 cells, NIH/3T3 cells, mouse liver tissue, rat liver tissue

Background Information

Ras-related protein Rab-1B (RAB1B) belongs to the small GTPase superfamily and Rab family. Rab1b, a GTPase regulating secretory transport, was recently associated with targeting proteins to LDs in a Drosophila RNAi screen. Rab1b recruits lipid-synthesizing enzymes, facilitating Lipid droplets (LDs) growth. The small GTPase Rab1b interacts with diacylglycerol acyltransferase 2 to facilitate its targeting to the surface of lipid droplets. (PMID: 38809969). Rab1b, an extensively studied and established master regulator of ER-to-Golgi transport. The mechanism of Rab1b's function is to promote ER to LD surface targeting of those triglyceride-synthesizing enzymes that can associate with the unique lipid monolayer comprising the LD surface (PMID: 38809969). Rab1b is a regulatory protein involved in both COPI and COPII transport (PMID: 17429068).

Storage

Storage:
Store at -20°C. Stable for one year after shipment.

Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

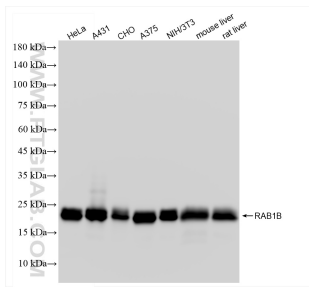
T: 4006900926

E: Proteintech-CN@ptglab.com

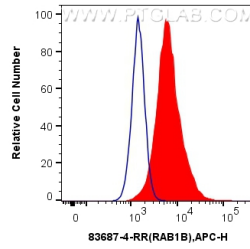
W: ptgcn.com

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

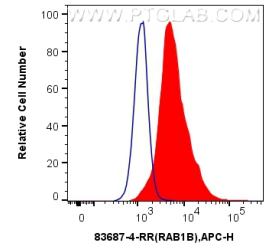
Selected Validation Data



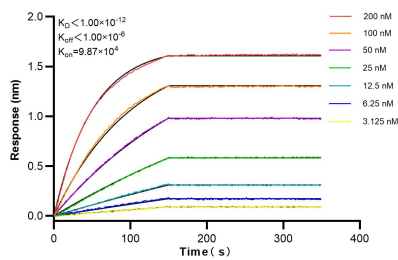
Various lysates were subjected to SDS PAGE followed by western blot with 83687-4-RR (RAB1B antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



1×10^6 U-251 cells were intracellularly stained with 0.25 ug RAB1B Recombinant antibody (83687-4-RR, Clone:240635D9) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



1×10^6 HeLa cells were intracellularly stained with 0.25 ug RAB1B Recombinant antibody (83687-4-RR, Clone:240635D9) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Bi-layer interferometry (BLI) kinetic assays of 83687-4-RR against Human RAB1B were performed. The affinity constant is below 1 pM.