

For Research Use Only

CoraLite® Plus 488-conjugated RAB1B Recombinant monoclonal antibody

Catalog Number: CL488-83687-4



Basic Information

Catalog Number:	CL488-83687-4	GenBank Accession Number:	BC071169	Purification Method:	Protein A purification
Source:	Rabbit	GenID (NCBI):	81876	CloneNo.:	240635D9
Isotype:	IgG	UNIPROT ID:	Q9HOU4	Recommended Dilutions:	IF/ICC: 1:50-1:500
Immunogen Catalog Number:	AG12197	Full Name:	RAB1B, member RAS oncogene family	Excitation/Emission maxima wavelengths:	493 nm / 522 nm
		Calculated MW:	201 aa, 22 kDa		
		Observed MW:	22 kDa		

Applications

Tested Applications:	IF/ICC	Positive Controls:
Species Specificity:	human, mouse, rat	IF/ICC: MCF-7 cells,

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

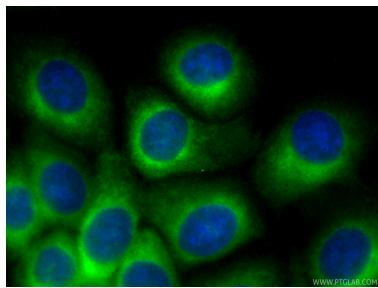
Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using Coralite® Plus 488 RAB1B antibody (CL488-83687-4, Clone: 240635D9) at dilution of 1:200.