

For Research Use Only

CoraLite® Plus 488-conjugated RCN1 Recombinant antibody

Catalog Number: CL488-83638-3



Basic Information

Catalog Number: CL488-83638-3	GenBank Accession Number: BC010120	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 5954	CloneNo.: 240473E9
Source: Rabbit	UNIPROT ID: Q15293	Recommended Dilutions: IF/ICC: 1:50-1:500
Isotype: IgG	Full Name: reticulocalbin 1, EF-hand calcium binding domain	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Immunogen Catalog Number: AG13256	Calculated MW: 39 kDa	
	Observed MW: 44-46 kDa	

Applications

Tested Applications: IF/ICC	Positive Controls: IF/ICC : U2OS cells,
Species Specificity: human	

Background Information

Reticulocalbin-1 (RCN1) belongs to the CREC family. Reticulocalbin-1, an endoplasmic reticulum protein, plays a crucial role in calcium homeostasis and inhibits ER stress-induced apoptosis (PMID: 28319095). Its main functions include maintaining intracellular homeostasis and regulating cell proliferation and apoptosis, and it plays an important role in the development of various tumours (PMID: 38057406). RCN1 is expressed aberrantly and at a high level in various tumors, including acute myeloid leukemia (AML) (PMID: 37746742). In multiple cancers, such as glioblastoma, non-small cell lung cancer, renal cell carcinoma, hepatocellular carcinoma, and oral squamous cell carcinoma, the overexpression of RCN1 has been observed indicating its involvement in tumorigenesis and invasion (PMID: 30172915, PMID: 34722631).

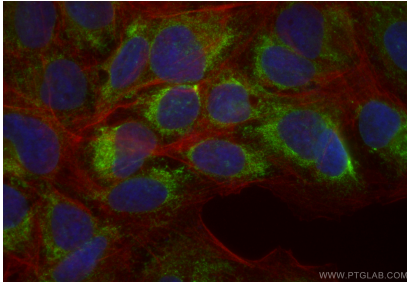
Storage

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:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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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 (4% PFA) fixed U2OS cells using CoraLite® Plus 488 RCN1 antibody (CL488-83638-3, Clone: 240473E9) at dilution of 1:200, CL594-Phalloidin (red).