For Research Use Only

RCN1 Recombinant antibody

Catalog Number:83638-3-RR



Basic Information

Catalog Number: GenBank Accession Number:

83638-3-RR BC010120 GeneID (NCBI): Size:

100ul, Concentration: 1000 ug/ml by 5954 Nanodrop: **UNIPROT ID:** Q15293 Rabbit Full Name:

Isotype: reticulocalbin 1, EF-hand calcium

IgG binding domain Immunogen Catalog Number: Calculated MW: AG13256 39 kDa

> Observed MW: 44-46 kDa

Applications

Tested Applications: WB, IF/ICC, FC (Intra), ELISA

Species Specificity:

Positive Controls:

WB: HeLa cells, A375 cells, SH-SY5Y cells, HuH-7 cells

Purification Method:

Protein A purification

Recommended Dilutions:

WB 1:2000-1:10000

IF/ICC 1:125-1:500

CloneNo.:

240473E9

IF/ICC: U2OS cells,

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. Stable for one year after shipment.

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

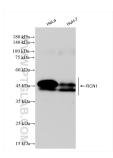
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

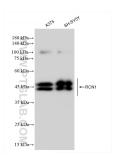
in USA), or 1(312) 455-8498 (outside USA)

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

Selected Validation Data



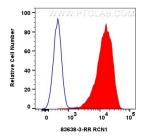
Various lysates were subjected to SDS PAGE followed by western blot with 83638-3-RR (RCN1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



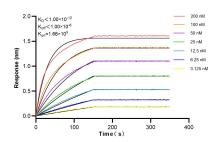
Various lysates were subjected to SDS PAGE followed by western blot with 83638-3-RR (RCN1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed U2OS cells using RCN1 antibody (83638-3-RR, Clone: 240473E9) at dilution of 1:250 and CoraLite® 488-Conjugated Affini Pure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



1x10^6 HeLa cells were intracellularly stained with 0.25 ug RCN1 Recombinant antibody (83638-3-RR, Clone:240473E9) and CoraLite® 488-Conjugated Goat Anti-Rabbit 1gG(H+L) (SA00013-2) (red), or 0.25 ug Control Antibody (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 83638-3-RR against Human RCN1 were performed. The affinity constant is below 1 pM.