

For Research Use Only

# CoraLite® Plus 488-conjugated RCN2 Recombinant monoclonal antibody

Catalog Number: CL488-84956-4



## Basic Information

Catalog Number:	GenBank Accession Number:	Purification Method:
CL488-84956-4	BC004892	Protein A purification
Source:	GenelD (NCBI):	CloneNo.:
Rabbit	5955	242612A4
Isotype:	UNIPROT ID:	Recommended Dilutions:
IgG	Q14257	IF/ICC: 1:50-1:500
Immunogen Catalog Number:	Full Name:	Excitation/Emission maxima wavelengths:
AG0247	reticulocalbin 2, EF-hand calcium binding domain	493 nm / 522 nm
	Calculated MW:	
	37 kDa	
	Observed MW:	
	55 kDa	

## Applications

Tested Applications:	Positive Controls:
IF/ICC	IF/ICC: HeLa cells,
Species Specificity:	
human, mouse, rat	

## Background Information

Reticulocalbin-2 (RCN2) is also named as endoplasmic reticulum Ca<sup>2+</sup>-binding protein of 55 kDa (ERC55) and E6-binding protein (E6BP). It is strictly located in endoplasmic reticulum (PMID: 34094681). RCN2 is a low-affinity Ca<sup>2+</sup>-binding protein localized to the secretory pathway of mammalian cells, belongs to a member of the EF-hand Ca<sup>2+</sup>-binding protein family, which participate in the secretory process, chaperone activity, signal transduction as well as participation in a large variety of disease processes (PMID: 19260022). As for cancer research, several studies showed that RCN2 was related to tumor progression, such as mammary cancer, cervical cancer, neck squamous cell carcinoma and colorectal cancer (PMID: 16351756, PMID: 32422974). RCN2 played a pivotal role in HCC pathogenesis through regulating activation of the epidermal growth factor receptor (EGFR) pathway and modulating epidermal growth factor receptor EGFR dimerization and internalization (PMID: 28745317).

## Storage

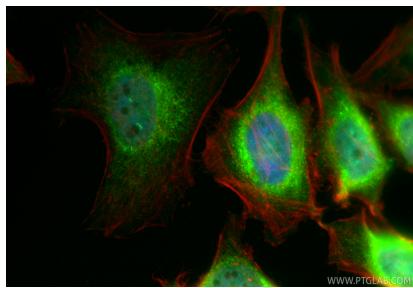
**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

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



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CoraLite® Plus 488 RCN2 antibody (CL488-84956-4, Clone: 242612A4) at dilution of 1:200, CL594-phalloidin (red).