

For Research Use Only

CoraLite® Plus 647-conjugated IRE1; ERN1 Polyclonal antibody



Catalog Number: CL647-27528

Basic Information

Catalog Number: CL647-27528	GenBank Accession Number: BC130405	Purification Method: Antigen affinity purification
Size: 1000 µg/ml	GeneID (NCBI): 2081	Excitation/Emission maxima wavelengths: 654 nm / 674 nm
Source: Rabbit	UNIPROT ID: O75460	
Isotype: IgG	Full Name: endoplasmic reticulum to nucleus signaling 1	
Immunogen Catalog Number: AG25580	Calculated MW: 977 aa, 110 kDa	
	Observed MW: 130 kDa	

Applications

Tested Applications:
FC (Intra)

Species Specificity:
Human

Background Information

Inositol-requiring enzyme 1 (IRE1) is an ER transmembrane sensor that activates the UPR to maintain the ER and cellular function. Although mammalian IRE1 promotes cell survival, it can initiate apoptosis via decay of antiapoptotic miRNAs. IRE1 contains a ribonuclease domain in its cytoplasmic region which initiates splicing reaction by direct cleavage of XBP1 mRNA at the two stem loop structures. IRE1 plays instrumental protumoral roles in several cancers, and high IRE1 activity has been associated with poorer prognoses. (PMID: 23880584, PMID: 32861679, PMID: 31875595)

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, pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

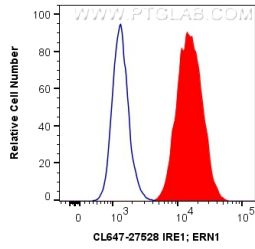
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1X10⁶ A549 cells were intracellularly stained with 0.8 ug CoraLite® Plus 647 Anti-Human IRE1; ERN1 (CL647-27528) (red), or 0.8 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).