

For Research Use Only

IRE1; ERN1 Polyclonal antibody

Catalog Number: 28164-1-AP



Basic Information

Catalog Number:

28164-1-AP

Size:

550 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG27375

GenBank Accession Number:

BC130405

GeneID (NCBI):

2081

UNIPROT ID:

O75460

Full Name:

endoplasmic reticulum to nucleus
signaling 1

Calculated MW:

977 aa, 110 kDa

Observed MW:

130 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

Human

Positive Controls:

WB : PC-3 cells,

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. Stable for one year after shipment.

Storage Buffer:

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

Aliquoting is unnecessary for -20°C storage

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

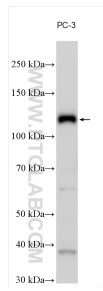
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Selected Validation Data



PC-3 cells were subjected to SDS PAGE followed by western blot with 28164-1-AP (IRE1; ERN1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.