

IRE1/ERN1 Recombinant antibody

Catalog Number: 82687-5-RR

Basic Information

Catalog Number: 82687-5-RR	GenBank Accession Number: BC130405	Purification Method: Protein A purification
Concentration: 1000 µg/ml	GeneID (NCBI): 2081	CloneNo.: 250145G7
Source: Rabbit	UNIPROT ID: O75460	Recommended Dilutions: WB: 1:2000-1:10000
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: WB, ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : LNCaP cells, C2C12 cells, rat liver tissue, A549 cells

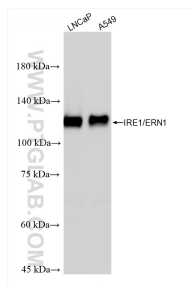
Background Information

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)

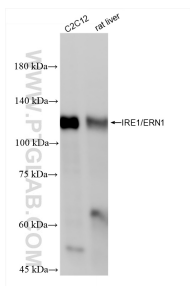
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

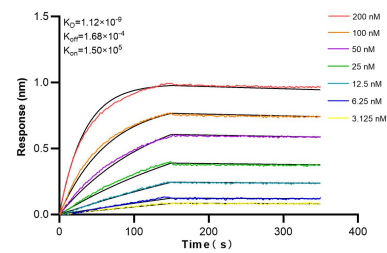
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 82687-5-RR (IRE1; ERN1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



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Biolayer interferometry (BLI) kinetic assays of 82687-5-RR against Human IRE1/ERN1 were performed. The affinity constant is 1.12 nM.