

IRE1α (Phospho Ser724) (PT1195R) PT™ Rabbit mAb

CatalogNo: YM9004 **Recombinant** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, IP, ELISA

MW

- 110kD (Calculated)
110kD (Observed)

Isotype

- IgG, Kappa

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

Recommended Dilution Ratios

IHC 1:200-1:1000

WB 1:2000-1:10000

IF 1:200-1:1000

ELISA 1:5000-1:20000

IP 1:50-1:200

Basic Information

Clonality Monoclonal

Clone Number PT1195R

Immunogen Information

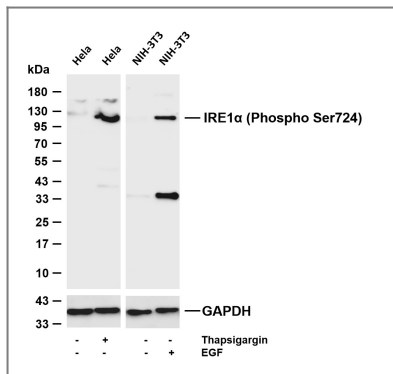
Immunogen The specific immunogen used to produce this antibody is proprietary information.

Specificity IRE1α (Phospho Ser724) Antibody detects endogenous levels of IRE1 protein only when phosphorylated at S724. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):RHsFS

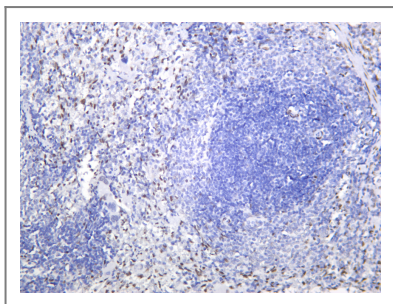
Target Information

Gene name	ERN1 IRE1		
Protein Name	Serine/threonine-protein kinase/endoribonuclease IRE1		
	Organism	Gene ID	UniProt ID
	Human	2081 ;	Q75460 ;
	Mouse	78943 ;	Q9EQY0 ;
Cellular Localization	Endoplasmic reticulum membrane		
Tissue specificity	Ubiquitously expressed. High levels observed in pancreatic tissue.		
Function	Catalytic activity:ATP + a protein = ADP + a phosphoprotein. ,cofactor:Magnesium. ,enzyme regulation:The kinase domain is activated by trans-autophosphorylation. Kinase activity is required for activation of the endoribonuclease domain. ,Function:Senses unfolded proteins in the lumen of the endoplasmic reticulum via its N-terminal domain which leads to enzyme auto-activation. The active endoribonuclease domain splices XBP1 mRNA to generate a new C-terminus , converting it into a potent unfolded-protein response transcriptional activator and triggering growth arrest and apoptosis. ,PTM:Autophosphorylated. ,similarity:Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. ,similarity:Contains 1 KEN domain. ,similarity:Contains 1 protein kinase domain. ,subunit:Homodimer; disulfide-linked. Dimer formation is driven by hydrophobic interactions within the N-terminal luminal domains and stabilized by disulfide bridges. Also binds HSPA5 , a negative regulator of the unfolded protein response. This interaction may disrupt homodimerization and prevent activation of ERN1. ,tissue specificity:Ubiquitously expressed. High levels observed in pancreatic tissue. ,		

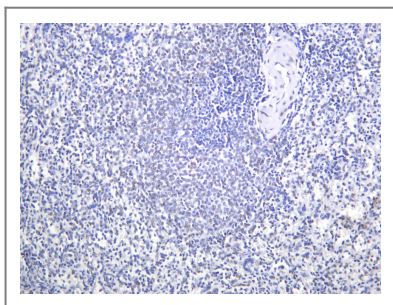
Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-IRE1α (Phospho Ser724) (PT1195R) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: HeLa Lane 2: HeLa was treated with Thapsigargin (300nM) for 30 minutes Lane 3: NIH-3T3 Lane 4: NIH-3T3 was treated with EGF (100ng/ml) for 20 minutes Predicted band size: 110kDa Observed band size: 110kDa



Rat spleen was stained with anti-IRE1α (Phospho Ser724) (PT1195R) Rabbit antibody



Human spleen was stained with anti-IRE1α (Phospho Ser724) (PT1195R) Rabbit antibody

Contact information

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Please scan the QR code to access additional product information:
IRE1α (Phospho Ser724) (PT1195R) PT™ Rabbit mAb

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