

## IRE1 $\alpha$ (PT0365R) PT<sup>™</sup> Rabbit mAb

CatalogNo: YM8218 **Recombinant** 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, IHC, IF, IP, ELISA

#### MW

- 110kD (Calculated)  
110kD (Observed)

#### Isotype

- IgG, Kappa

### Recommended Dilution Ratios

IHC 1:100-1:500

WB 1:2000-1:10000

IF 1:200-1:1000

ELISA 1:5000-1:20000

IP 1:50-1:200

### 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

### Basic Information

**Clonality** Monoclonal**Clone Number** PT0365R

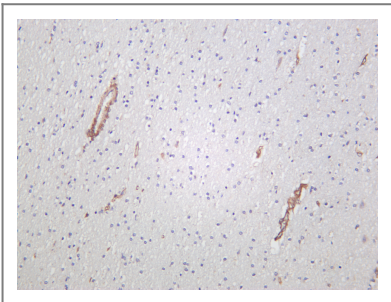
### Immunogen Information

**Specificity** Endogenous

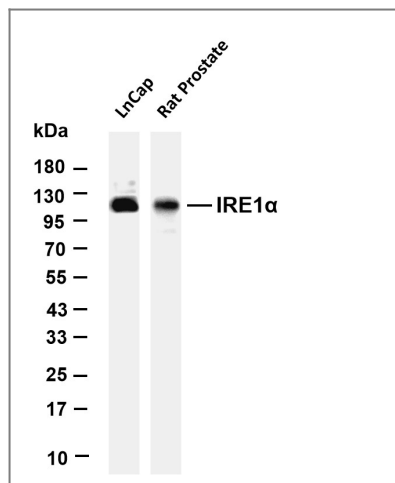
## | Target Information

Gene name	ERN1 IRE1		
Protein Name	Serine/threonine-protein kinase/endoribonuclease IRE1		
	Organism	Gene ID	UniProt ID
	Human	<a href="#">2081</a> ;	<a href="#">O75460</a> ;
	Mouse	<a href="#">78943</a> ;	<a href="#">Q9EQY0</a> ;
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



Human brain was stained with anti-IRE1α rabbit antibody



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-IRE1 $\alpha$  antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: LnCap Lane 2: Rat Prostate Predicted band size: 110kDa Observed band size: 110kDa

## Contact information

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**PT™ Rabbit mAb**

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