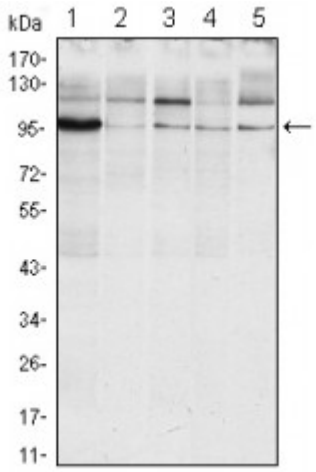
# Anti-IRE alpha antibody




| | |
|---|---|
| **Description** | Mouse monoclonal to IRE1alpha. |

| | |
|---|---|
| **Model** | STJ98183 |
| **Host** | Mouse |
| **Reactivity** | Human |
| **Applications** | ELISA, IHC, WB |
| **Immunogen** | Purified recombinant fragment of human IRE1alpha (aa282-433) expressed in E. Coli. |
| **Immunogen Region** | 282-433 |
| **Gene ID** | 2081 |
| **Gene Symbol** | ERN1 |
| **Dilution range** | WB 1:500-1:2000IHC 1:200-1:1000ELISA 1:10000 |
| **Specificity** | IRE1alpha Monoclonal Antibody detects endogenous levels of IRE1alpha protein. |
| **Tissue Specificity** | Ubiquitously expressed. High levels observed in pancreatic tissue. |
| **Purification** | Affinity purification |
| **Clone ID** | 9F2 |
| **Note** | For Research Use Only (RUO). |
| **Protein Name** | Serine/threonine-protein kinase/endoribonuclease IRE1 Endoplasmic reticulum-to-nucleus signaling 1 Inositol-requiring protein 1 hIRE1p Ire1-alpha IRE1a Includes: Serine/threonine-protein kinase Endoribonuclease |

| | |
|---|---|
| **Clonality** | Monoclonal |
| **Conjugation** | Unconjugated |
| **Isotype** | IgG1 |
| **Formulation** | Ascitic fluid containing 0.03% sodium azide. |
| **Storage Instruction** | Store at -20°C, and avoid repeat freeze-thaw cycles. |
| **Database Links** | HGNC:3449OMIM:604033 |
| **Alternative Names** | Serine/threonine-protein kinase/endoribonuclease IRE1 Endoplasmic reticulum-to-nucleus signaling 1 Inositol-requiring protein 1 hIRE1p Ire1-alpha IRE1a Includes: Serine/threonine-protein kinase Endoribonuclease |
| **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. |
| **Cellular Localization** | Endoplasmic reticulum membrane |
| **Post-translational Modifications** | Autophosphorylated. ADP-ribosylated by PARP16 upon ER stress, which increases both kinase and endonuclease activities. |