

# Anti-IRE1 Antibody [C9-F2]

EM1708-88



<b>Product Type:</b>	Mouse monoclonal IgG1, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	WB, IHC-P
<b>Molecular Wt:</b>	110 kDa
<b>Clone number:</b>	C9-F2

<b>Description:</b>	The accumulation of unfolded proteins within the endoplasmic reticulum (ER) of yeast and mammalian cells activates the unfolded protein response (UPR) pathway and leads to the transcription of ER-specific genes involved in protein folding. The activation of the UPR requires the ER transmembrane kinase IRE1p (for inositol-requiring and ER-to-nucleus signaling protein). IRE1 $\alpha$ and IRE1 $\beta$ are two mammalian homologs of the yeast IRE1p. These related proteins localize to the ER lumen and contain both a short transmembrane domain that spans the ER membrane and a cytosolic Ser/Thr kinase domain. IRE1 activation involves the oligomerization and trans-phosphorylation of the cytosolic portion of the proteins, which then potentiates its intrinsic kinase activity and, in turn, stimulates transcription of UPR-targeted genes. In response to stress, sensors for the ER mammalian cells activate IRE1 $\alpha$ and IRE1 $\beta$ , which then results in the phosphorylation of JNK (Jun N-Terminal Kinase) and the activation of the cellular MAP kinase pathway.
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<b>Immunogen:</b>	Recombinant protein
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<b>Positive control:</b>	Raji, A431, Jurkat, Hela, HEK293 cell lysate, human placenta tissue, human brain tissue, human stomach tissue.
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<b>Subcellular location:</b>	Endoplasmic reticulum membrane.
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<b>Database links:</b>	SwissProt: O75460 Human
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**Recommended Dilutions:**

<b>WB</b>	1:500-1:2,000
<b>IHC-P</b>	1:50-1:200

<b>Storage Buffer:</b>	Purified antibody in PBS with 0.05% sodium azide.
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<b>Storage Instruction:</b>	4°C; -20°C for long term storage.
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<b>Purity:</b>	Protein A affinity purified.
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Orders:0086-571-88062880

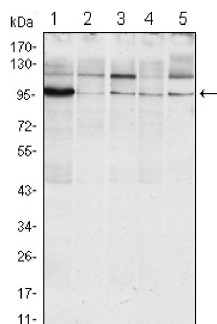
Technical:0086-571-89986345

Service mail:support@huabio.cn

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

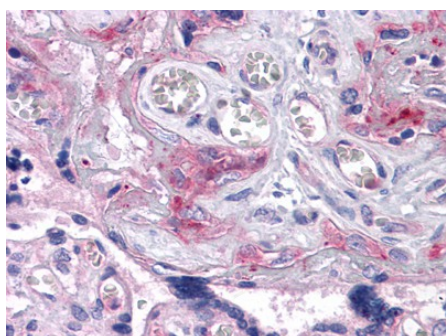
## Images



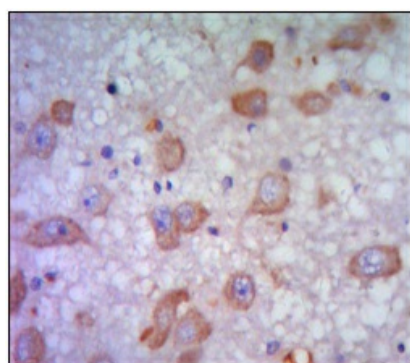
**Fig1:** Western blot analysis of ERN1 on different cell lysate using anti-ERN1 antibody at 1/1,000 dilution.

**Positive control:**

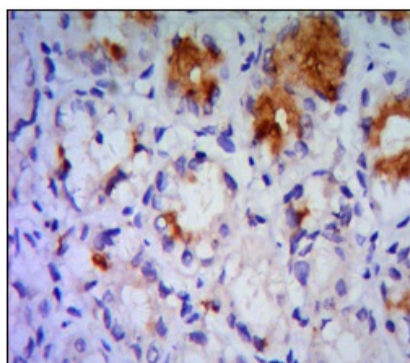
Line1: Raji  
Line2: A431  
Line3: Jurkat  
Line4: Hela  
Line5: HEK293



**Fig2:** Immunohistochemical analysis of paraffin-embedded human placenta tissue using anti-ERN1 antibody. Counter stained with hematoxylin.



**Fig3:** Immunohistochemical analysis of paraffin-embedded human brain tissue using anti-ERN1 antibody. Counter stained with hematoxylin.



**Fig4:** Immunohistochemical analysis of paraffin-embedded human stomach tissue using anti-ERN1 antibody. Counter stained with hematoxylin.

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**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

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