

Anti-IRE1 Antibody [C9-F2]

EM1708-88



Product Type: Mouse monoclonal IgG1, primary antibodies

Species reactivity: Human

Applications: WB, IHC-P

Molecular Wt: 110 kDa

Clone number: C9-F2

Description: 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 α and IRE1 β 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 α and IRE1 β , which then results in the phosphorylation of JNK (Jun N-Terminal Kinase) and the activation of the cellular MAP kinase pathway.

Immunogen: Recombinant protein

Positive control: Raji, A431, Jurkat, Hela, HEK293 cell lysate, human placenta tissue, human brain tissue, human stomach tissue.

Subcellular location: Endoplasmic reticulum membrane.

Database links: SwissProt: O75460 Human

Recommended Dilutions:

WB 1:500-1:2,000

IHC-P 1:50-1:200

Storage Buffer: Purified antibody in PBS with 0.05% sodium azide.

Storage Instruction: 4°C; -20°C for long term storage.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co.,Ltd.

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Images

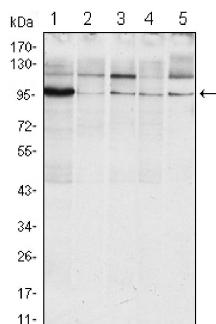


Fig1: Western blot analysis of ERN1 on different cell lysate using anti-ERN1 antibody at 1/1,000 dilution.

Positive control:

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

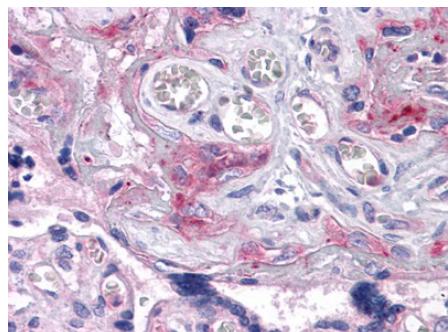


Fig2: Immunohistochemical analysis of paraffin-embedded human placenta tissue using anti-ERN1 antibody. Counter stained with hematoxylin.

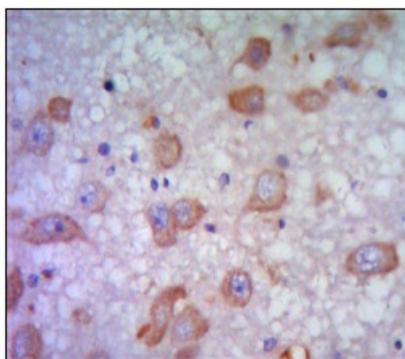


Fig3: Immunohistochemical analysis of paraffin-embedded human brain tissue using anti-ERN1 antibody. Counter stained with hematoxylin.

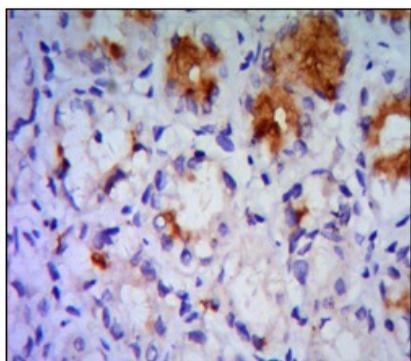


Fig4: Immunohistochemical analysis of paraffin-embedded human stomach tissue using anti-ERN1 antibody. Counter stained with hematoxylin.

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