

## **Product Description**

Pioneering GTPase and Oncogene Product Development since 2010

## ERN2 RABBIT PAB

Cat.#: S220530

**Product Name:** Anti-ERN2 Rabbit Polyclonal Antibody

Synonyms: IRE1b; IRE1-BETA

**UNIPROT ID:** Q76MJ5 (Gene Accession - NP\_150296)

**Background:** The accumulation of unfolded proteins within the endoplasmic recticulum (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). IRE1à and IRE1? 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 transphosphorylation of the cytosolic portion of the proteins, which then potentiates its intrinsic kinase activity and, in turn, stimulates transcription of UPR-targeted genes.

Immunogen: Synthetic peptide of human ERN2

Applications: ELISA, IHC

Recommended Dilutions: IHC: 50-200; ELISA: 2000-5000

Host Species: Rabbit

**Clonality:** Rabbit Polyclonal

Isotype: Immunogen-specific rabbit IgG

Purification: Antigen affinity purification

Species Reactivity: Human

**Constituents:** PBS (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl, 0.05% Sodium Azide and 40% glycerol

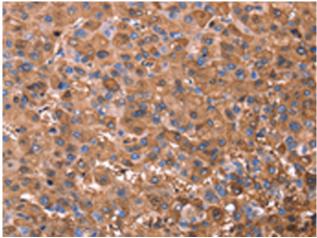
Research Areas: Cancer

Storage & Shipping: Store at -20°C. Avoid repeated freezing and thawing

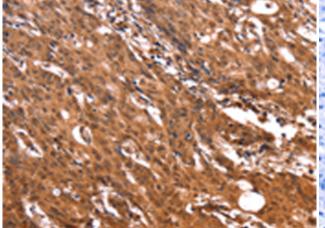


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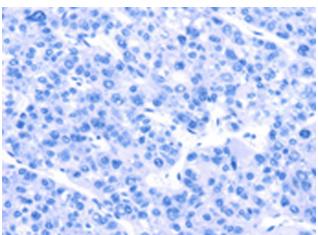
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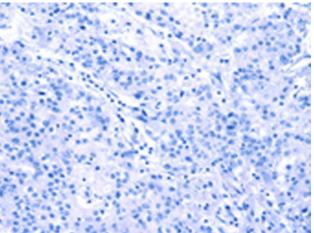
Immunohistochemistry analysis of paraffin embedded Human liver cancer tissue using 220530(ERN2 Antibody) at a dilution of 1/40(Cytoplasm).



The image on the left is immunohistochemistry of paraffinembedded Human gastric cancer tissue using 220530(Anti-ERN2 Antibody) at a dilution of 1/40.



In comparision with the IHC on the left, the same paraffin-embedded Human liver cancer tissue is first treated with the synthetic peptide and then with 220530(Anti-ERN2 Antibody) at dilution 1/40.



In comparision with the IHC on the left, the same paraffin-embedded Human gastric cancer tissue is first treated with synthetic peptide and then with D261658(Anti-ERN2 Antibody) at dilution 1/40.