

XBP1 Rabbit monoclonal antibody

Catalog: MB66465

Host: Rabbit

Reactivity: Human, Mouse

BackGround:

Following protein synthesis, secretory, intra-organellar, and transmembrane proteins translocate into the endoplasmic reticulum (ER) where they are post-translationally modified and properly folded. The accumulation of unfolded proteins within the ER triggers an adaptive mechanism known as the unfolded protein response (UPR) that counteracts compromised protein folding. The transmembrane serine/threonine kinase IRE1, originally identified in *Saccharomyces cerevisiae*, is a proximal sensor for the UPR that transmits the unfolded protein signal across the ER membrane. The human homolog IRE1 α was later identified and is ubiquitously expressed in human tissues. Upon activation of the unfolded protein response, IRE1 α splices X-box binding protein 1 (XBP-1) mRNA through an unconventional mechanism using its endoribonuclease activity. This reaction converts XBP-1 from an unspliced XBP-1u isoform to the spliced XBP-1s isoform, which is a potent transcriptional activator that induces expression of many UPR responsive genes.

Product:

Liquid in 50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA.

Molecular Weight:

~ 28 kDa

Swiss-Prot:

P17861

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000), IP (1/10 - 1/50)

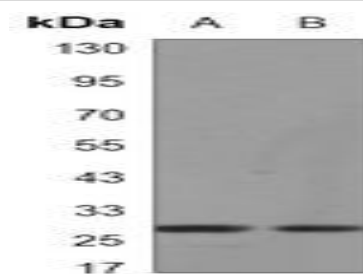
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of XBP1 protein.

DATA:



Western blot analysis of XBP1 expression in Raw264.7 (A), HL60 (B), U2OS (C) whole cell lysates.

Note:

For research use only, not for use in diagnostic procedure.

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