

bs-23973R**[Primary Antibody]****Bioss**
ANTIBODIES

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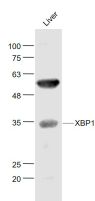
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XBP1 Rabbit pAb**— DATASHEET —**

Host: Rabbit Clonality: Polyclonal GeneID: 7494 Target: XBP1 Immunogen: KLH conjugated synthetic peptide derived from human XBP1 : 31-130/261. Purification: affinity purified by Protein A Concentration: 1mg/ml Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. Background: This gene encodes a transcription factor that regulates MHC class II genes by binding to a promoter element referred to as an X box. This gene product is a bZIP protein, which was also identified as a cellular transcription factor that binds to an enhancer in the promoter of the T cell leukemia virus type 1 promoter. It may increase expression of viral proteins by acting as the DNA binding partner of a viral transactivator. It has been found that upon accumulation of unfolded proteins in the endoplasmic reticulum (ER), the mRNA of this gene is processed to an active form by an unconventional splicing mechanism that is mediated by the endonuclease inositol-requiring enzyme 1 (IRE1). The resulting loss of 26 nt from the spliced mRNA causes a frame-shift and an isoform XBP1(S), which is the functionally active transcription factor. The isoform encoded by the unspliced mRNA, XBP1(U), is constitutively expressed, and thought to function as a negative feedback regulator of XBP1(S), which shuts off transcription of target genes during the recovery phase of ER stress. A pseudogene of XBP1 has been identified and localized to chromosome 5. [provided by RefSeq, Jul 2008]	Isotype: IgG SWISS: P17861 Applications: WB (1:500-2000) Reactivity: Mouse (predicted: Human, Rat, Rabbit, Pig, Sheep, Horse) Predicted MW.: 29/40 kDa Subcellular Location: Cell membrane ,Cytoplasm ,Nucleus
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— VALIDATION IMAGES —

Sample: Liver (Mouse) Lysate at 40 ug Primary:

Anti- XBP1 (bs-23973R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at

1/20000 dilution Predicted band size: 29/40 kD

Observed band size: 34 kD

— SELECTED CITATIONS —

- **[IF=5.279]** Jianzhao Liao. et al. Endoplasmic Reticulum Stress Contributes to Copper-Induced Pyroptosis via Regulating the IRE1 α -XBP1 Pathway in Pig Jejunal Epithelial Cells. J Agr Food Chem. 2022;70(4):1293–1303 WB ;Pig. 35075900

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.