
XBP1 Rabbit pAb

Catalog Number: bs-1668R

Target Protein: XBP1

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), Flow-Cyt (1ug/test), ICC/IF (1:100)

Reactivity: Human, Mouse, Rat (predicted: Cow, Chicken)

Predicted MW: 29/40 kDa

Entrez Gene: 7494

Swiss Prot: P17861

Source: KLH conjugated synthetic peptide derived from human XBP-1: 51-150/261.

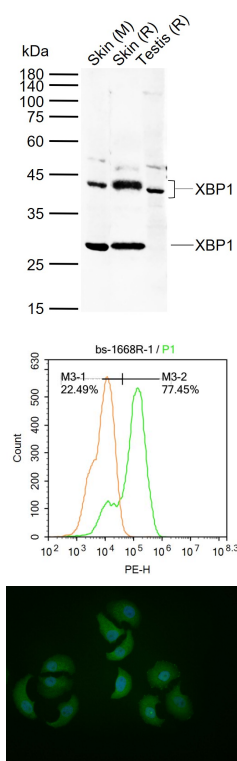
Purification: affinity purified by Protein A

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]

VALIDATION IMAGES



Sample: Lane 1: Mouse Skin tissue lysates Lane 2: Rat Skin tissue lysates Lane 3: Rat Testis tissue lysates
 Primary: Anti-XBP1 (bs-1668R) at 1/500 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 29/40 kDa Observed band size: 29/42 kDa

U-937 cells were fixed with 4% PFA for 10min at room temperature, permeabilized with 90% ice-cold methanol for 20 min at room temperature, and incubated in 5% BSA blocking buffer for 30 min at room temperature. Cells were then stained with XBP1 Antibody (bs-1668R) at 1:500 dilution in blocking buffer and incubated for 30 min at room temperature, washed twice with 2% BSA in PBS, followed by secondary antibody incubation for 40 min at room temperature. Acquisitions of 20,000 events were performed. Cells stained with primary antibody (green), and isotype control (orange).

HepG2 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (XBP1) polyclonal Antibody, Unconjugated (bs-1668R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

PRODUCT SPECIFIC PUBLICATIONS

[IF=6.706] Elisa Martino. et al. Milk Exosomal miR-27b Worsen Endoplasmic Reticulum Stress Mediated Colorectal Cancer Cell Death. NUTRIENTS. 2022 Jan;14(23):5081 WB ; Human . 36501111

[IF=5.878] Xueying Zhang. et al. Scutellarin ameliorates hepatic lipid accumulation by enhancing autophagy and suppressing IRE1α/XBP1 pathway. 2021 Dec 02 WB ; Mouse , Human . 34859513

[IF=5.793] Chunyue Wang. et al. Neuroprotective effects of verbascoside against Alzheimer's disease via the relief of endoplasmic reticulum stress in Aβ-exposed U251 cells and APP/PS1 mice. J Neuroinflamm. 2020 Dec;17(1):1-16 WB ; Human . 33070776

[IF=5.3] Wenjing Lu. et al. 1α,25(OH)2D3 improves 17β-estradiol secretion and potentially alleviates endoplasmic reticulum stress in muskrat granulosa cells. BIOCHEM PHARMACOL. 2024 Dec;116696 WB ; Muskrat . 39647606

[IF=4.784] Wang L et al. Radioprotective effect of Hohenbuehelia serotina polysaccharides through mediation of ER apoptosis pathway in vivo. Int J Biol Macromol. 2019 Apr 15;127:18-26. IHC ; Mouse . 30605745