

## Anti-XBP1 Polyclonal Antibody

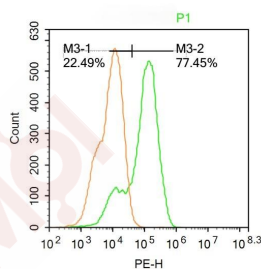
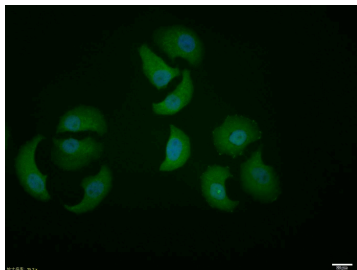
### Product Details

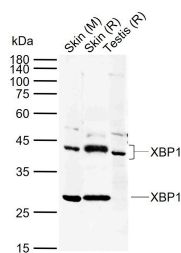
Ig Type: IgG  
Reactivity: Human, Mouse (predicted: Rat, Chicken, Cow)  
Molecular Weight: Theoretical: 29/40 kDa. Actual: 29/42 kDa.  
Purification: Protein A purified

### Applications

#### Verified Activity:

- HepG2 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (XBP1) polyclonal Antibody, Unconjugated (TMAB-01989) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nucleus.
- U-937 cells were fixed with 4% PFA for 10 min 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 (TMAB-01989) 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).
- Sample:  
Lane 1: Mouse Skin tissue lysates  
Lane 2: Rat Skin tissue lysates  
Lane 3: Rat Testis tissue lysates  
Primary: Anti-XBP1 (TMAB-01989) 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





Application: FCM,ICC/IF,WB

Recommended FCM=1 µg/Test; ICC/IF=1:100-500; WB=1:500-2000

### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

### Antigen Details

Immunogen: KLH conjugated synthetic peptide: human XBP-1

Antigen Species: Human

Gene ID: 7494

Uniprot ID: P17861

Synonyms: X box-binding protein-1;X-box-binding protein 1, cytoplasmic form;X-box-binding protein 1 in isoform 2;XBP2;X box binding protein 2;XBP-1;TREB5;X-box-binding protein 1, luminal form; XBP 1;XBP1;Tax responsive element binding protein 5

Biology Area: Transcription Factors,Other factors

### Research 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]

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