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# XBP1 Rabbit mAb

**Catalog No.: A25319** Recombinant 1 Publications

## Basic Information

**Observed MW**
60kDa/56kDa/29kDa,60kDa

**Calculated MW**
29kDa

**Category**
Primary antibody

**Applications**
WB,IP,ELISA

**Cross-Reactivity**
Human, Mouse

**CloneNo number**
ARC3254

## 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.

## Recommended Dilutions

| | |
|---|---|
| **WB** | 1:500 - 1:1000 |
| **IP** | 0.5μg-4μg antibody for 200μg-400μg extracts of whole cells |
| **ELISA** | Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. |

## Immunogen Information

**Gene ID**
7494

**Swiss Prot**
P17861

**Immunogen**
Recombinant protein

**Synonyms**
XBP2; TREB5; XBP-1; TREB-5; XBP1s

## Contact


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## Product Information

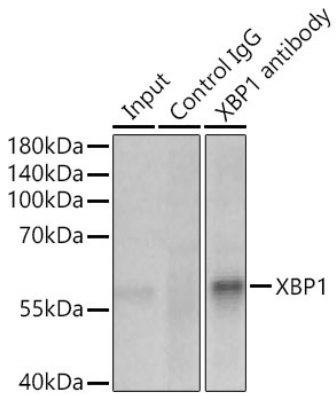
**Source**
Rabbit

**Isotype**
IgG

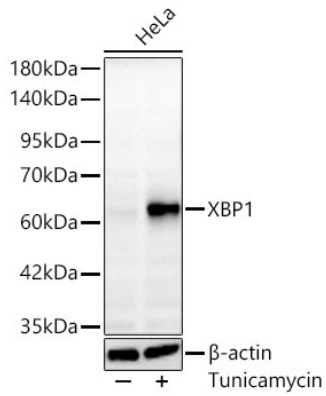
**Purification**
Affinity purification

**Storage**
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

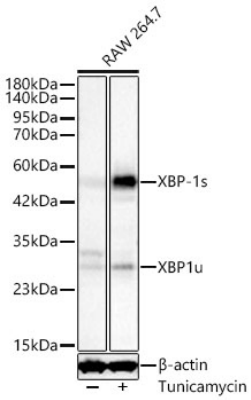
## Validation Data




Immunoprecipitation of XBP1 from 200 µg extracts of Huh7 cells treated by thapsigargin (300 nM,18h) was performed using 0.5 µg of XBP1 Rabbit mAb (A25319). Rabbit IgG isotype control (AC042) was used to precipitate the Control IgG sample. IP samples were eluted with 1X non-reducing Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using XBP1 Rabbit mAb (A25319) at a dilution of 1:1000.




Western blot analysis of lysates from HeLa cells using XBP1 Rabbit mAb (A25319) at 1:1000 dilution incubated overnight at 4℃. HeLa cells were treated by tunicamycin (10 µg/ml) for 8 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3 % nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020)
Exposure time: 60 s.




Western blot analysis of lysates from RAW 264.7 cells using XBP1 Rabbit mAb (A25319) at 1:1000 dilution incubated overnight at 4℃. RAW264.7 cells were treated by tunicamycin (5 µg/ml) for 8 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3 % nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90s.