

XBP1 Rabbit Polyclonal Antibody



CAB1731

Product Information

Size:

20uL, 50uL, 100uL, 200uL

Observed MW:

35kDa/55kDa/60kDa

Calculated MW:

28kDa/40kDa

Applications:

WB IF

Reactivity:

Human, Mouse, Rat

Antibody Information

Recommended dilutions:

WB 1:500 - 1:2000 IF 1:50 - 1:200

Source:

Rabbit

Isotype:

IgG

Purification:

Affinity purification

Protein 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.

Immunogen information

Gene ID:

7494

Uniprot

P17861

Synonyms:

XBP1; TREB-5; TREB5; XBP-1; XBP2; XBP1s; CBX1

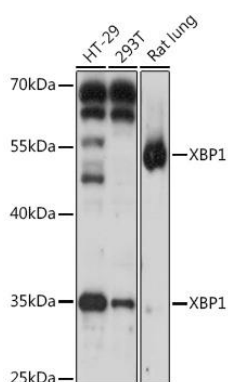
Immunogen:

Recombinant fusion protein containing a sequence corresponding to amino acids 1-261 of human XBP1 (NP_005071.2).

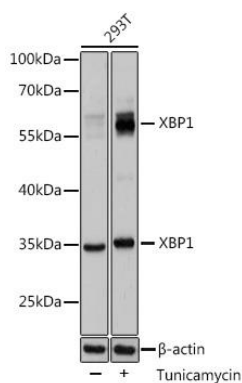
Storage:

Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

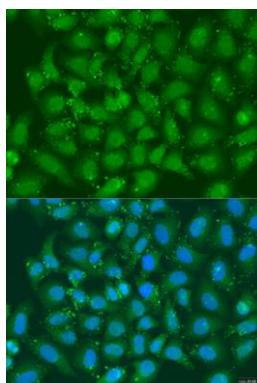
Product Images



Western blot analysis of extracts of various cell lines, using XBP1 antibody (CAB1731) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (CABM00020). Exposure time: 5s.



Western blot analysis of extracts of 293T cells, using XBP1 antibody (CAB1731) at 1:1000 dilution. 293T cells were treated by tunicamycin (2 ug/mL) for 8 hours. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% BSA. Detection: ECL Basic Kit (CABM00020). Exposure time: 10s.



Immunofluorescence analysis of U2OS cells using XBP1 antibody (CAB1731) at dilution of 1:100. Blue: DAPI for nuclear staining.