

# XBP1 Rabbit Polyclonal Antibody



CAB14651

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## Product Information

### Size:

20uL, 50uL, 100uL, 200uL

### Observed MW:

Refer to figures

### Calculated MW:

28kDa/40kDa

### Applications:

WB IHC IF

### Reactivity:

Human, Mouse

## Antibody Information

### Recommended dilutions:

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

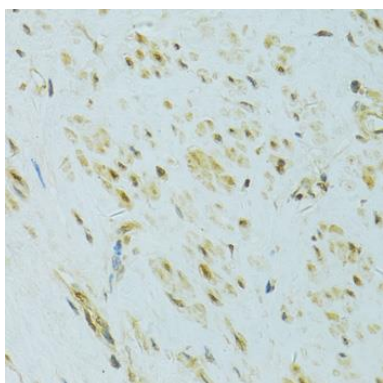
Recombinant fusion protein containing a sequence corresponding to amino acids 1-261 of human XBP1 (NP\_005071.2).

### Storage:

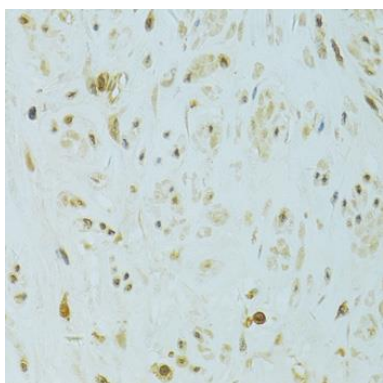
Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

## Product Images

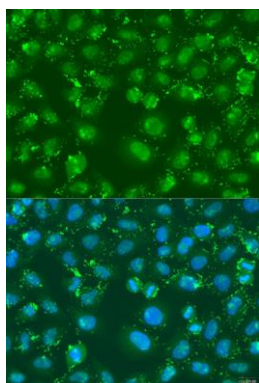
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Immunohistochemistry of paraffin-embedded human uterus using XBP1 antibody (CAB14651) at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded human uterine cancer using XBP1 antibody (CAB14651) at dilution of 1:100 (40x lens).



Immunofluorescence analysis of U2OS cells using XBP1 antibody (CAB14651) at dilution of 1:100. Blue: DAPI for nuclear staining.