

XBP1 Rabbit Polyclonal Antibody

Catalog No: #53892

Package Size: #53892-1 50ul #53892-2 100ul

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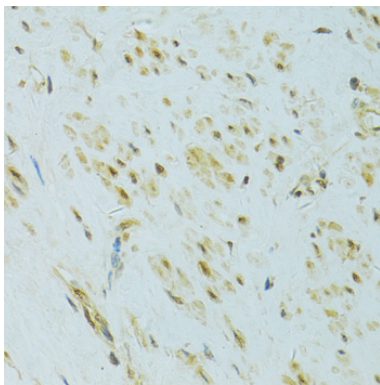
Description

Product Name	XBP1 Rabbit Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Affinity purification
Applications	WB,IHC,IF
Species Reactivity	Human,Mouse
Immunogen Description	Recombinant fusion protein of human XBP1 (NP_005071.2).
Other Names	XBP1;TREB-5;TREB5;XBP-1;XBP2;XBP1s;CBX1
Accession No.	Swiss Prot:P17861GeneID:7494
Calculated MW	28kDa/40kDa
Formulation	Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Storage	Store at -20°C. Avoid freeze / thaw cycles.

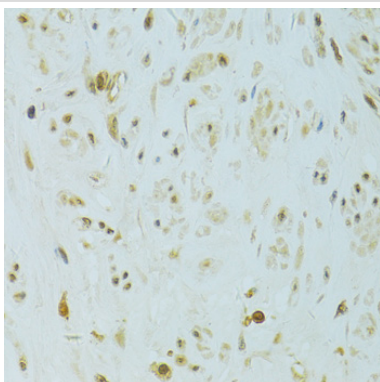
Application Details

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

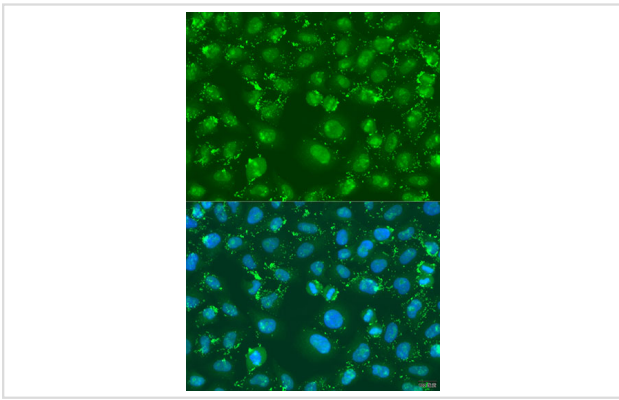
Images



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



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



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

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.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.