



XBP1S Mouse mAb

Catalog No	YP-mAb-18383
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 188-287 of human XBP1S. (NP_001073007.1)
Specificity	
Formulation	
Source	
Purification	Affinity purification
Dilution	WB 1:500 - 1:1000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	XBP1;Tax-responsive element-binding protein 5;TREB-5;X box binding protein 1; X-box-binding protein 1;XBP2;TREB5;XBP-1;XBP1S
Observed Band	45-65 kDa
Calculated Molecular Weight	261 aa, 29 kDa
Cell Pathway	
Tissue Specificity	
Function	
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

matters needing attention

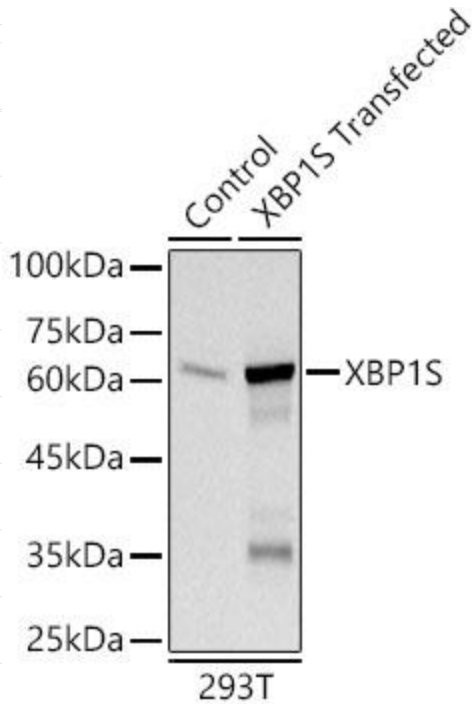
Avoid repeated freezing and thawing!

Usage suggestions

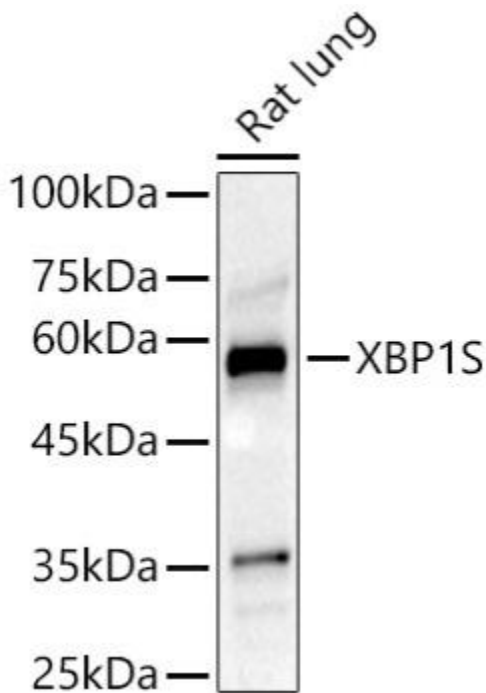
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



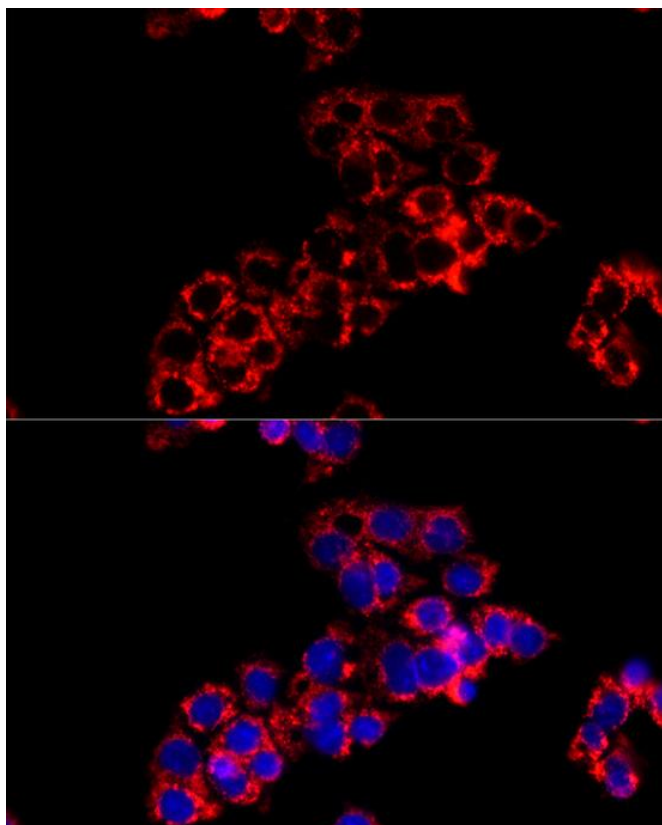
Products Images



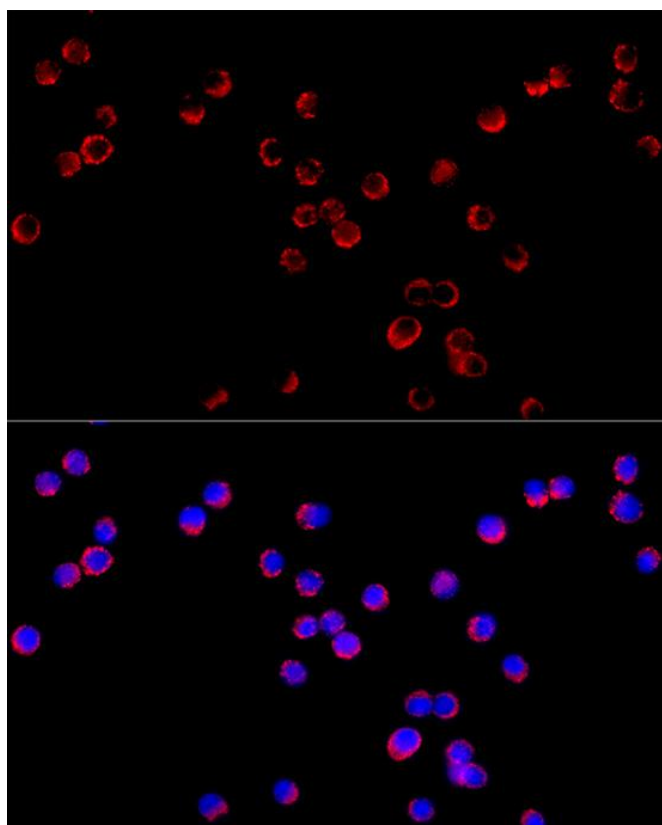
Western blot analysis of lysates from wild type (WT) and 293T cells transfected with XBP1S, using XBP1S mouse pAb (A22546) at 1:400 dilution. Secondary antibody: HRP-conjugated Goat anti-mouse IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 μ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 20s.



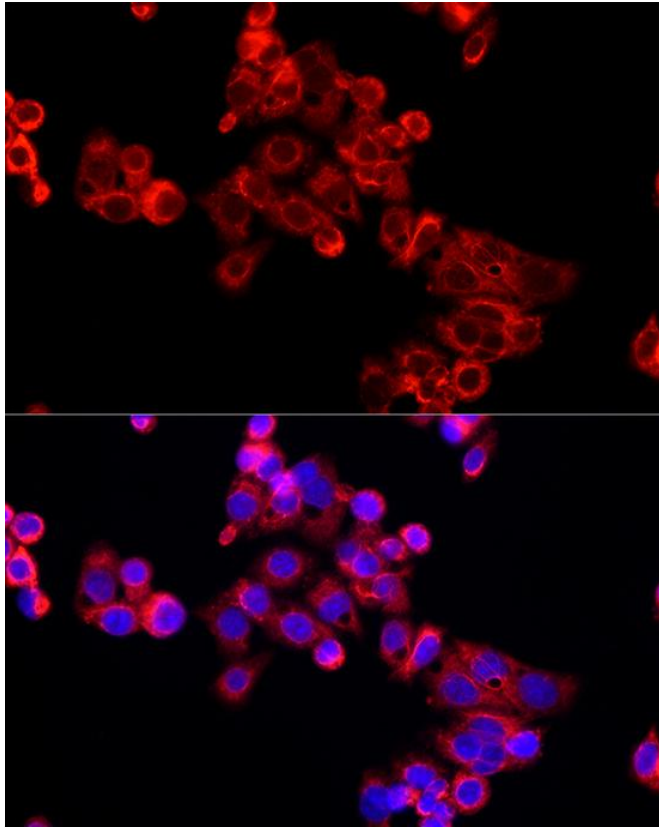
Western blot analysis of lysates from Rat lung, using XBP1S mouse pAb (A22546) at 1:400 dilution. Secondary antibody: HRP-conjugated Goat anti-mouse IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 μ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 60s.



Immunofluorescence analysis of Hep-G2 cells using XBP1S mouse pAb (A22546) at dilution of 1:20 (40x lens). Secondary antibody: Cy3- conjugated Goat anti-mouse IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of HT-29 cells using XBP1S mouse pAb (A22546) at dilution of 1:20 (40x lens). Secondary antibody: Cy3- conjugated Goat anti-mouse IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of Hep-G2 cells using XBP1S mouse pAb (A22546) at dilution of 1:20 (40x lens). Secondary antibody: Cy3- conjugated Goat anti-mouse IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.