

Datasheet for ABIN7271399
anti-XBP1 antibody (AA 300-376)

5 Images

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Overview

Quantity:	100 µL
Target:	XBP1
Binding Specificity:	AA 300-376
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This XBP1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	XBP1s Rabbit pAb
Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 300-376 of human XBP1s (NP_001073007.1).
Sequence:	SVKEEPVEDD LPPELGISNL LSSSHCPKPS SCLLDAYSDC GYGGSLSPFS DMSSLLGVNH SWEDTFANEL FPQLISV
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	XBP1
Alternative Name:	XBP1 (XBP1 Products)
Background:	<p>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.,XBP1,TREB-5,TREB5,XBP-1,XBP2,XBP1s,CBX1,Epigenetics & Nuclear Signaling,Transcription Factors,XBP1</p>
Molecular Weight:	28kDa/40kDa
Gene ID:	7494
UniProt:	P17861
Pathways:	ER-Nucleus Signaling , Unfolded Protein Response

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200
Restrictions:	For Research Use only

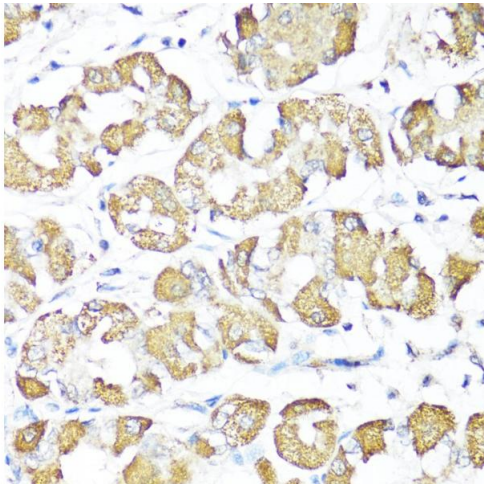
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

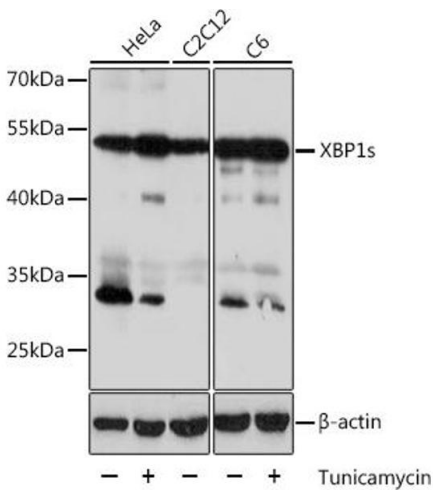
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



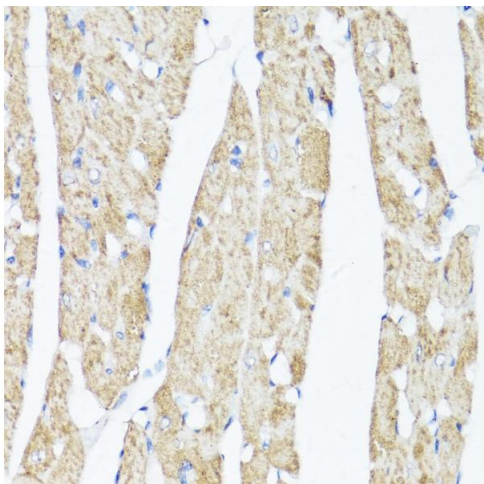
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded Human stomach using XBP1s antibody (ABIN7271399) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using XBP1s antibody (ABIN7271399) at 1:1000 dilution. HeLa cells were treated by Tunicamycin (2 µg/mL) for 8 hours. C6 cells were treated by Tunicamycin (2 µg/mL) for 8 hours. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded Rat heart using XBP1s antibody (ABIN7271399) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.

Images

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN7271399.