

Product datasheet for **TA306289**

XBP1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 0.5 - 2 ug/mL, ICC: 10 ug/mL
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	XBP-1 antibody was raised against an 18 amino acid synthetic peptide from near the amino terminus of human XBP-1. The immunogen is located within amino acids 40 - 90 of XBP-1.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	X-box binding protein 1
Database Link:	NP_001073007 Entrez Gene 22433 Mouse Entrez Gene 7494 Human P17861
Background:	X box binding protein 1 (XBP-1) is a key protein in the mammalian unfolded protein response (UPR) that protects the cell against the stress of malformed proteins in the endoplasmic reticulum (ER). Upon sensing unfolded proteins, an ER transmembrane endonuclease and kinase termed IRE1p is activated and excises an intron from XBP-1 mRNA. The spliced XBP-1 mRNA results in a 371 amino acid protein (XBP-1s) which is then translocated to the nucleus where it binds to the regulatory elements of downstream genes. Together with other UPR transcription factors such as ATF6, XBP-1 stimulates the production of ER stress proteins including the ER resident protein chaperones glucose regulated protein (GRP) 78 and GRP94 (3,4).

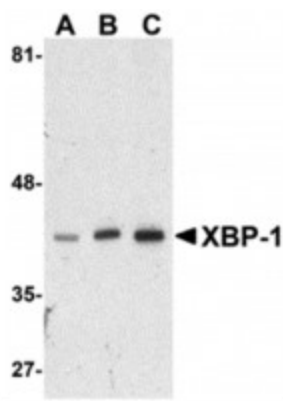


[View online »](#)

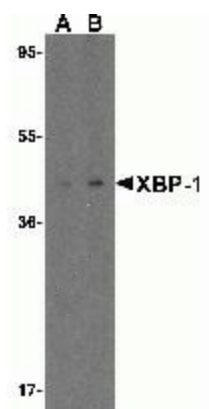
Synonyms: TREB-5; TREB5; XBP-1; XBP2

Protein Families: Transcription Factors

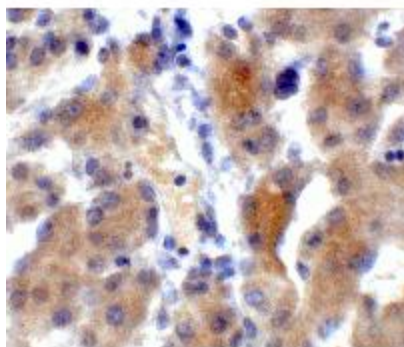
Product images:



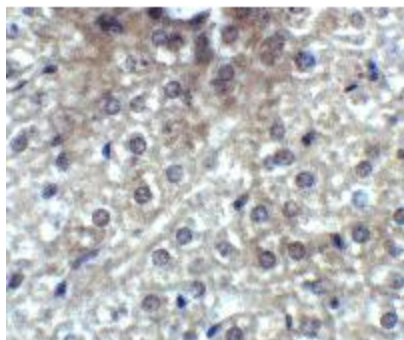
Western blot analysis of XBP-1 in HepG2 cell lysate with XBP-1 antibody at (A) 0.5, (B) 1 and (C) 2ug/ml.



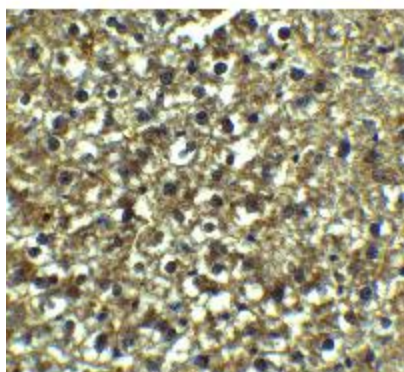
Western blot analysis of XBP1 expression in rat liver tissue lysate with XBP1 antibody at (A) 1 and (B) 2ug/ml.



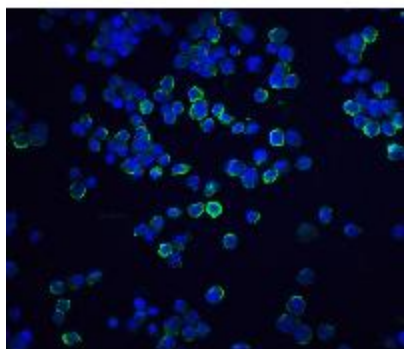
Immunohistochemistry of XBP1 in human liver tissue with XBP1 antibody at 5ug/ml.



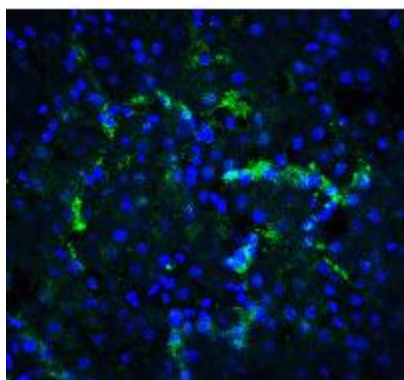
Immunohistochemistry of XBP1 in mouse liver tissue with XBP1 antibody at 2ug/ml.



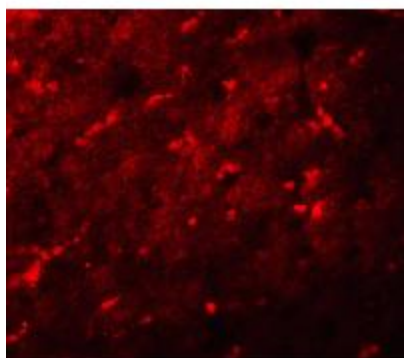
Immunohistochemistry of XBP-1 in rat liver tissue with XBP-1 Antibody at 5ug/ml.



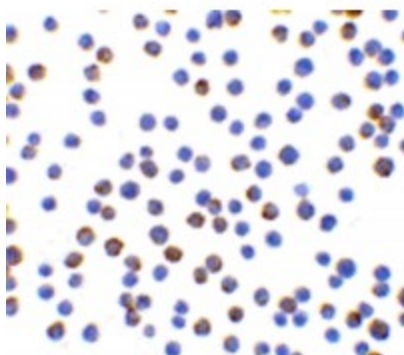
Immunofluorescence of XBP-1 in HepG2 cells with XBP-1 antibody at 20ug/ml.



Immunofluorescence of XBP1 in human liver tissue with XBP1 antibody at 20ug/ml.



Immunofluorescence of XBP-1 in rat liver tissue with XBP-1 Antibody at 20ug/ml.



Immunocytochemistry of XBP-1 in HepG2 cells with XBP-1 antibody at 10ug/ml.