

## Product datasheet for **TA306288**

### **XBP1 Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	WB: 0.5 - 2 ug/mL, ICC: 2 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	XBP-1 antibody was raised against a 17 amino acid peptide from near the carboxy terminus of human 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:	<a href="#">NP_001073007</a> <a href="#">Entrez Gene 22433 Mouse</a> <a href="#">Entrez Gene 289754 Rat</a> <a href="#">Entrez Gene 7494 Human</a> <a href="#">P17861</a>

**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).

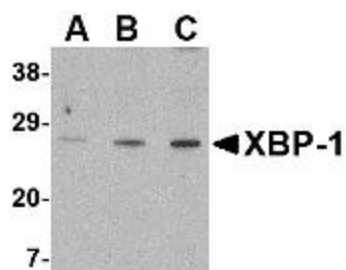


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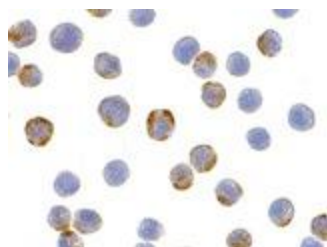
Synonyms: TREB-5; TREB5; XBP-1; XBP2

Protein Families: Transcription Factors

### Product images:



Western blot analysis of XBP-1 in PC-3 cell lysate with XBP-1 antibody at (A) 0.5, (B) 1 and (C) 2 ug/mL.



Immunocytochemistry of XBP-1 in HepG2 cells with XBP-1 antibody at 2 ug/mL.