

Product datasheet for **TA355479**

XBP1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The immunogen is a synthetic peptide directed towards the C terminal region of human XBP1
Specificity:	Expected reactivity: Cow, Horse, Human, Mouse, Pig, Rabbit, Rat, Zebrafish Homology: Cow: 100%; Horse: 93%; Human: 100%; Mouse: 93%; Pig: 92%; Rabbit: 93%; Rat: 93%; Zebrafish: 85%
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	29kDa
Gene Name:	X-box binding protein 1
Database Link:	NP_005071 Entrez Gene 7494 Human P17861



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Background:

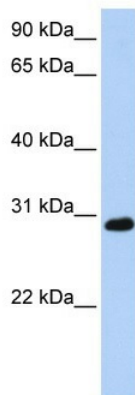
XBP1 is a transcription factor that regulates MHC class II genes by binding to a promoter element referred to as an X box. XBP1 is a bZIP protein, which was also identified as a cellular transcription factor that binds to an enhancer in the promoter of the T cell leukemia virus type 1 promoter. It may increase expression of viral proteins by acting as the DNA binding partner of a viral transactivator. 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.

Synonyms:

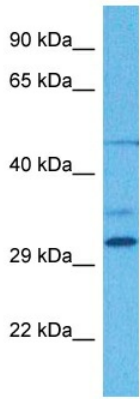
TREB5; XBP-1; XBP2

Protein Families:

Transcription Factors

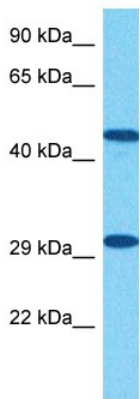
Product images:

WB Suggested Anti-XBP1 Antibody Titration: 0.2-1 ug/ml
ELISA Titer: 1:1562500
Positive Control: Jurkat cell lysate



Host: Rabbit
Target Name: XBP1
Sample Type: 293T Cell Lysate
Antibody Dilution: 1.0 μ g/ml

Host: Rabbit
Target Name: XBP1
Sample Tissue: Human 293T Whole Cell
Antibody Dilution: 1 μ g/ml



Host: Rabbit
Target Name: XBP1
Sample Type: HepG2 Cell Lysate
Antibody Dilution: 1.0 μ g/ml

Host: Rabbit
Target Name: XBP1
Sample Tissue: Human HepG2 Whole Cell
Antibody Dilution: 0.5 μ g/ml