

XBP1 Polyclonal Antibody | anti-XBP1 antibody

Anti-XBP1 Antibody

CATALOG # AAA46523	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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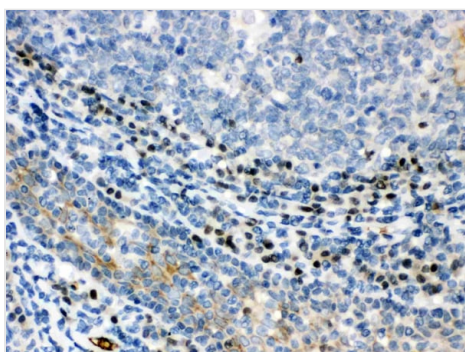
PRODUCT SYNONYMS

XBP1; Polyclonal Antibody; Anti-XBP1 Antibody; X-box-binding protein 1; Tax responsive element binding protein 5; Tax-responsive element-binding protein 5; TREB5; X box binding protein 1; X box binding protein 2; XBP 1; XBP-1; XBP1_HUMAN; XBP2; X-box binding protein 1; anti-XBP1 antibody

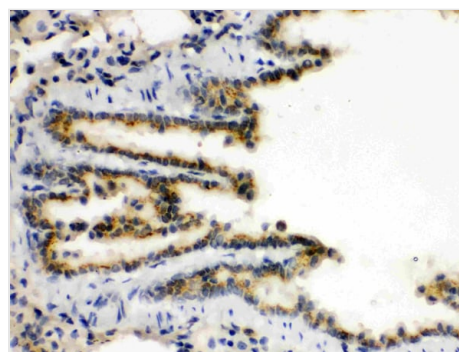
PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Sequence Length	376
Applicable Applications for anti-XBP1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human XBP1 (59-85 aa RKRQRLTHLSPEEKALRRKLKNRVAAQ), identical to the related mouse and rat sequences.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

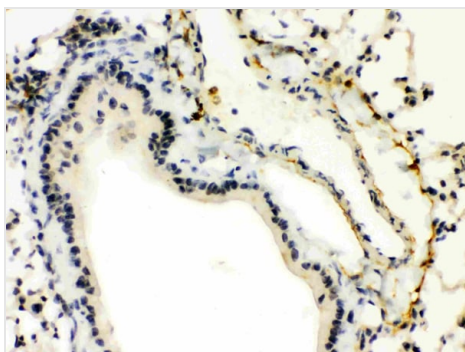
IMAGES



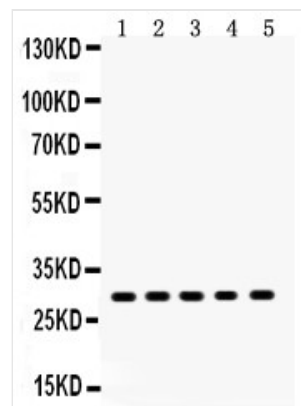
IHC (Immunohistochemistry)
Anti- XBP Picoband antibody, AAA46523, IHC(P)IHC(P): Human Tonsil Tissue



IHC (Immunohistochemistry)
Anti- XBP Picoband antibody, AAA46523, IHC(P)IHC(P): Rat Lung Tissue



IHC (Immunohistochemistry)
Anti- XBP Picoband antibody, AAA46523, IHC(P)IHC(P): Mouse Lung Tissue



WB (Western Blot)
Anti- XBP Picoband antibody, AAA46523, Western blottingAll lanes: Anti XBP1 (AAA46523) at 0.5ug/mlLane 1: MCF-7 Whole Cell Lysate at 40ugLane 2: MM231 Whole Cell Lysate at 40ugLane 3: MM453 Whole Cell Lysate at 40ugLane 4: SKOV Whole Cell Lysate at 40ugLane 5: HELA Whole Cell Lysate at 40ugPredicted bind size: 29KDObserved bind size: 29KD

ADDITIONAL INFORMATION

Related Product Information for anti-XBP1 antibody	Description: Rabbit IgG polyclonal antibody for X-box-binding protein 1(XBP1) detection. Tested with WB, IHC-P in Human;Mouse;Rat. Background: XBP1, also known as X-box binding protein 1, is a protein which in humans is encoded by the XBP1 gene. It 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.
References	1. "Entrez Gene: XBP1 X-box binding protein 1". 2. Ono SJ, Liou HC, Davidon R, Strominger JL, Glimcher LH (May 1991). "Human X-box-binding protein 1 is required for the transcription of a subset of human class II major histocompatibility genes and forms a heterodimer with c-fos". Proc. Natl. Acad. Sci. U.S.A. 88 (10): 4309-12. 3. Yoshida H, Nakanaka S, Sato R, Mori K (2006). "XBP1 is critical to protect cells from endoplasmic reticulum stress: evidence from Site-2 protease-deficient Chinese hamster ovary cells". Cell Structure and Function 31 (2): 117-25.

NCBI AND UNIPROT INFORMATION

NCBI GI #	118640873
NCBI GeneID	7494
NCBI Accession #	NP_001073007.1
NCBI GenBank Nucleotide #	NM_001079539.1
UniProt Accession #	P17861 ; Q8WYK6 ; Q969P1 ; Q96BD7
Molecular Weight	40,148 Da
NCBI Official Full Name	X-box-binding protein 1 isoform XBP1(S)
NCBI Official Synonym Full Names	X-box binding protein 1
NCBI Official Symbol	XBP1
NCBI Official Synonym Symbols	XBP2; TREB5; XBP-1; TREB-5

NCBI Protein Information	X-box-binding protein 1
UniProt Protein Name	X-box-binding protein 1
UniProt Gene Name	XBP1
UniProt Synonym Gene Names	TREB-5
UniProt Entry Name	XBP1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/xbp1-antibody-immunohistochemistry-western-blot-elisa/46523>