

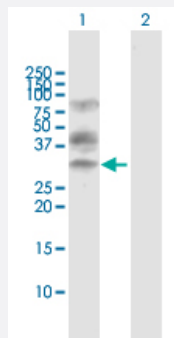
MaxPab®

XBP1 MaxPab rabbit polyclonal antibody (D01)

Catalog # H00007494-D01

Size 100 uL

Applications

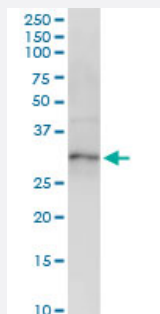


Western Blot (Transfected lysate)

Western Blot analysis of XBP1 expression in transfected 293T cell line ([H00007494-T02](#)) by XBP1 MaxPab polyclonal antibody.

Lane 1: XBP1 transfected lysate(28.70 kDa).

Lane 2: Non-transfected lysate.



Immunoprecipitation

Immunoprecipitation of XBP1 transfected lysate using anti-XBP1 MaxPab rabbit polyclonal antibody and Protein A Magnetic Bead, and immunoblotted with XBP1 purified MaxPab mouse polyclonal antibody (B01P) ([H00007494-B01P](#)).

Specification

Product Description

Rabbit polyclonal antibody raised against a full-length human XBP1 protein.

Immunogen

XBP1 (NP_005071.2, 1 a.a. ~ 261 a.a) full-length human protein.

Sequence

MVVVAAAPNPADGTPKVLLLSGQPASAAGAPAGQALPLMVPAQRGASPEAASGGLPQARKRQ
RLTHLSPEEKALRRKLKNRVAAQTARDRKKARMSELEQQVVDLEENQKLLLENQLLREKTHGL
VVENQELRQRLGMDALVAEEEEAEAKGNEVRPVAGSAESAALRLRAPLQQVQAQLSPLQNISPWI
LAVLTQIQSLISCWAFWTTWTQSCSSNALPQSLPAWRSSQRSTQKDPVPYQPPFLCQWGRHQ
PSWKPLMN

Host

Rabbit

Reactivity	Human
Interspecies Antigen Sequence	Rat (82)
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	No additive
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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[Protocol Download](#)

- Immunoprecipitation

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[Protocol Download](#)

Gene Info — XBP1

Entrez GeneID	7494
GeneBank Accession#	NM_005080.2
Protein Accession#	NP_005071.2
Gene Name	XBP1
Gene Alias	TREB5, XBP2
Gene Description	X-box binding protein 1
Omim ID	125480 194355
Gene Ontology	Hyperlink

Gene Summary

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. [provided by RefSeq]

Other Designations

OTTHUMP00000028682|X-box-binding protein-1

Publication Reference

- [Deficiency of SUMO-specific protease 1 induces arsenic trioxide-mediated apoptosis by regulating XBP1 activity in human acute promyelocytic leukemia.](#)

Wang FF, Liu MZ, Sui Y, Cao Q, Yan B, Jin ML, Mo X.

Oncology Letters 2016 Sep; 12(5):3755.

Application: WB, Human, NB4 cells

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