

DNAxPAb

Hard-to-Find
Antibody

XBP1 DNAxPab

Catalog # H00007494-W01P Size 200 ug

Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human XBP1 DNA using DNAx™ Immune technology.
Technology	DNAx™ Immune
Immunogen	Full-length human DNA
Sequence	MVVVAAAPNPADGTPKVLLLSGQPASAAGAPAGQALPLMVPAQRGASPEAASGGLPQARKRQ RLTHLSPEEKALRRKLKNRVAAQTARDRKKARMSELEQQVVDLEENQKLLLENQLLREKTHGL VVENQELRQRLGMDALVAEEEEAEAKGNEVRPVAGSAESAALRLRAPLQQVQAQLSPLQNISPW LAVLTLQIQSLISCWAFWTTWTQSCSSNALPQSLPAWRSSQRSTQKDPVPYQPPFLCQWGRHQ PSWKPLMN
Host	Rabbit
Reactivity	Human
Purification	Protein A
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)
[Protocol Download](#)
- Immunofluorescence (Transfected cell)
- Flow Cytometry (Transfected cell)

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

Disease

- [Amphetamine-Related Disorders](#)
- [Arousal](#)
- [Atherosclerosis](#)
- [Bipolar Disorder](#)
- [Depressive Disorder](#)
- [Genetic Predisposition to Disease](#)

- [Hyperhomocysteinemia](#)
- [IgA Deficiency](#)
- [Ischemia](#)
- [Kidney Failure](#)
- [Lung Neoplasms](#)
- [Obesity](#)
- [Personality Assessment](#)
- [Psychiatric Status Rating Scales](#)
- [Pulmonary Disease](#)
- [Schizophrenia](#)
- [Stress](#)
- [Stroke](#)
- [Urinary Bladder Neoplasms](#)
- [Vitiligo](#)
- [Werner syndrome](#)