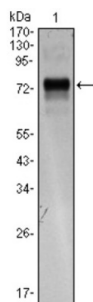


X-Box-Binding Protein 1 (XBP1) Antibody

Catalogue No.: abx012101



Western blot analysis using XBP1 antibody against XBP1 (AA: 1-160) -hlgGfC transfected HEK293 cell lysate.

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.

Target: X-Box-Binding Protein 1 (XBP1)

Clonality: Monoclonal

Reactivity: Human

Tested Applications: ELISA

Host: Mouse

Recommended dilutions: ELISA: 1/10000. Optimal dilutions/concentrations should be determined by the end user.

Conjugation: Unconjugated

Immunogen: Purified recombinant fragment of human XBP1 expressed in E. coli.

Isotype: IgG₁

Form: Liquid

Purification: Unpurified ascites.

Datasheet

Version: 2.0.0
Revision date: 22 Dec 2025



Storage: Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.

UniProt Primary AC: P17861 ([UniProt](#), [ExPASy](#))

Gene Symbol: XBP1

GeneID: [7494](#)

OMIM: [194355](#)

HGNC: 12801

KEGG: hsa:7494

Ensembl: ENSG00000100219

String: [9606.ENSP00000216037](#)

Molecular Weight: 28 kDa

Buffer: Ascitic fluid containing 0.03% sodium azide.

Concentration: Not determined.

Note: THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.