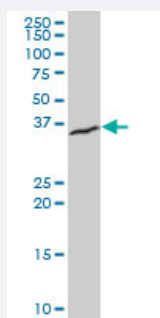


XBP1 monoclonal antibody (M04), clone 4E4

Catalog # H00007494-M04

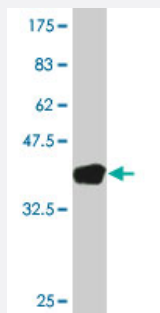
Size 100 ug

Applications



Western Blot (Cell lysate)

XBP1 monoclonal antibody (M04), clone 4E4 Western Blot analysis of XBP1 expression in U-2 OS(Cat # L022V1).



Western Blot detection against Immunogen (37.33 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant XBP1.
Immunogen	XBP1 (AAH12841, 123 a.a. ~ 225 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	THGLVVENQELRQRLGMDALVAEEEEAEAKGNEVRPVAGSAESAALRLRAPLQQVQAQLSPLQNI SPWILAVLTLQIQSLISCWAFWTTWTQSCSSNALPQSLP
Host	Mouse
Reactivity	Human

Interspecies Antigen Sequence	Rat (78)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.33 KDa) .
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 (Cell lysate)

XBP1 monoclonal antibody (M04), clone 4E4 Western Blot analysis of XBP1 expression in U-2 OS(Cat # L022V1).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

Gene Info — XBP1

Entrez GeneID	7494
GeneBank Accession#	BC012841
Protein Accession#	AAH12841
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](#)
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- [Stress](#)
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- [Urinary Bladder Neoplasms](#)
- [Vitiligo](#)
- [Werner syndrome](#)