



**Category:** Monoclonal Antibodies  
**Product Name:** Mouse Monoclonal Antibody to XBP1

**Catalog Number:** MAB-606030035

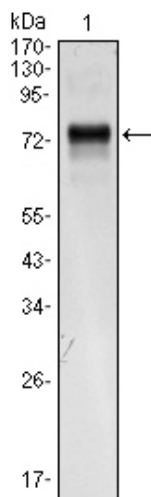


Figure 1: Western blot analysis using XBP1 mouse mAb against XBP1-hIgGFc transfected HEK293 cell lysate.

**Lot#:**  
**Clone#:** 1C4  
**Host and isotype:** Mouse IgG1  
**Size:** 0.1ml  
**MW:** 28kDa  
**Aliases:** XBP2; TREB5; XBP1  
**Entrez Gene:** 7494  
**Species reactivity:** Human

**Description** 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.

**Immunogen** Purified recombinant fragment of human XBP1 expressed in E. Coli.

**Application** Western Blotting: 1/500 - 1/2000.

ELISA: Propose dilution 1/10000.

Not yet tested in other applications.

Determining optimal working dilutions by titration test.

**Formulation** Astringent fluid containing 0.03% sodium azide.

**Storage** Store at 4°C, for long term storage, store at -20°C.

**Related product**

**References** 1. J Biol Chem. 2009 May 29;284(22):14904-13.

2. Neoplasia. 2009 May;11(5):436-47.

3. Clin Cancer Res. 2009 Jun 1;15(11):3834-41.

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