



Human XBP1 peptide (DAG-P2046)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen	Description
AIIUGEII	Describition

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, Jul 2008]

Conjugate	Unconjugated
Sequence Similarities	Belongs to the bZIP family.Contains 1 bZIP domain.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name XBP1 X-box binding protein 1 [Homo sapiens (human)]

Official Symbol XBP1

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Synonyms	XBP1; X-box binding protein 1; XBP2; TREB5; XBP-1; X-box-binding protein 1; tax-responsive element-binding protein 5;
Entrez Gene ID	7494
mRNA Refseq	NM 001079539.1
Protein Refseq	NP 001073007.1
UniProt ID	P17861
Chromosome Location	22q12.1; 22q12
Pathway	Activation of Chaperone Genes by ATF6-alpha, organism-specific biosystem; Activation of Chaperone Genes by XBP1(S), organism-specific biosystem; Activation of Chaperones by ATF6-alpha, organism-specific biosystem; Activation of Chaperones by IRE1alpha, organism-specific biosystem; FOXA1 transcription factor network, organism-specific biosystem; HTLV-I infection, organism-specific biosystem; HTLV-I infection, conserved biosystem; Insulin Signaling, organism-specific biosystem; Metabolism of prote
Function	DNA binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity;