

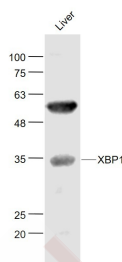
Anti-XBP1 Polyclonal Antibody 2

Product Details

Ig Type:	IgG
Reactivity:	Mouse (predicted:Human,Rat,Pig,Horse,Rabbit,Sheep)
Molecular Weight:	Theoretical: 29/40 kDa. Actual: 34 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	Sample:
	Liver (Mouse) Lysate at 40 µg
	Primary: Anti-XBP1 (TMAB-01990) at 1/1000 dilution
	Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
	Predicted band size: 29/40 kDa
	Observed band size: 34 kDa



Application:	WB
Recommended	WB: 1:500-2000

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human XBP1
Antigen Species:	Human
Gene ID:	7494
Uniprot ID:	P17861
Synonyms:	X-box-binding protein 1, luminal form;XBP-1;Tax responsive element binding protein 5;X box binding protein 2;XBP 1;X-box-binding protein 1 in isoform 2;XBP2;TREB5;X box-binding protein-1;XBP1;X-box-binding protein 1, cytoplasmic form
Biology Area:	Transcription Factors,Other factors

Research Background

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

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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]

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