

Product datasheet for CF815377

XBP1 Mouse Monoclonal Antibody [Clone ID: OTI3D12]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3D12
Applications:	WB
Recommended Dilution:	WB 1:500
Reactivity:	Human, Mouse
Host:	Mouse
lsotype:	lgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment of human XBP1S (NP_001073007) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Shipped at -20°C or with ice packs, Upon delivery store at -20°C. Dilute in PBS(pH7.3) if necessary. Stable for 12 months from date of receipt. Avoid repeated freeze-thaws.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	40 kDa
Gene Name:	X-box binding protein 1
Database Link:	<u>NP_001073007</u> <u>Entrez Gene 22433 MouseEntrez Gene 7494 Human</u> <u>P17861</u>



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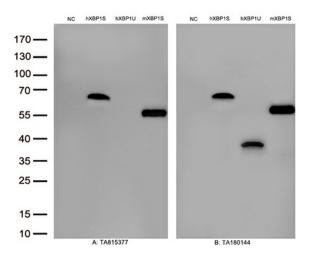
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GRIGENE XBP1 Mouse Monoclonal Antibody [Clone ID: OTI3D12] – CF815377

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 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]

Synonyms:TREB-5; TREB5; XBP-1; XBP2Protein Families:Transcription Factors

Product images:



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