

#### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

# Product datasheet for TA815378S

## XBP1 Mouse Monoclonal Antibody [Clone ID: OTI2E2]

### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	OTI2E2
Applications:	WB
Recommended Dilution:	WB 1:500
Reactivity:	Human
Host:	Mouse
lsotype:	lgG2a
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment of human XBP1S (NP_001073007) produced in E.coli.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
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 7494 Human</u> <u>P17861</u>



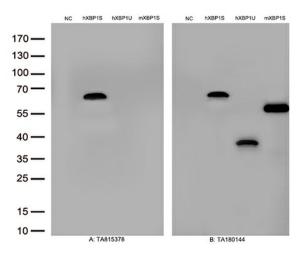
This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

#### STATES CONTRACTOR CONT

Background:This gene encodes a transcription factor that regulates MHC class II genes by binding to a<br/>promoter element referred to as an X box. This gene product is a bZIP protein, which was<br/>also identified as a cellular transcription factor that binds to an enhancer in the promoter of<br/>the T cell leukemia virus type 1 promoter. It may increase expression of viral proteins by<br/>acting as the DNA binding partner of a viral transactivator. It has been found that upon<br/>accumulation of unfolded proteins in the endoplasmic reticulum (ER), the mRNA of this gene<br/>is processed to an active form by an unconventional splicing mechanism that is mediated by<br/>the endonuclease inositol-requiring enzyme 1 (IRE1). The resulting loss of 26 nt from the<br/>spliced mRNA causes a frame-shift and an isoform XBP1(S), which is the functionally active<br/>transcription factor. The isoform encoded by the unspliced mRNA, XBP1(U), is constitutively<br/>expressed, and thought to function as a negative feedback regulator of XBP1(S), which shuts<br/>off transcription of target genes during the recovery phase of ER stress. A pseudogene of<br/>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:**



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US