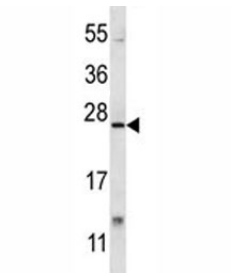
XBP1 Antibody (F42468)

Catalog No.	Formulation	Size
F42468-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F42468-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P17861
Applications	Western Blot : 1:1000
Limitations	This XBP1 antibody is available for research use only.



XBP1 antibody western blot analysis in mouse lung tissue lysate. Predicted molecular weight: ~29 kDa (isoform 1) and ~40 kDa (isoform 2).

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.

Application Notes

Titration of the XBP1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 217-244 from the human protein was used as the immunogen for this XBP1 antibody.

Storage

Aliquot the XBP1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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