

## XBP-1 Monoclonal Antibody

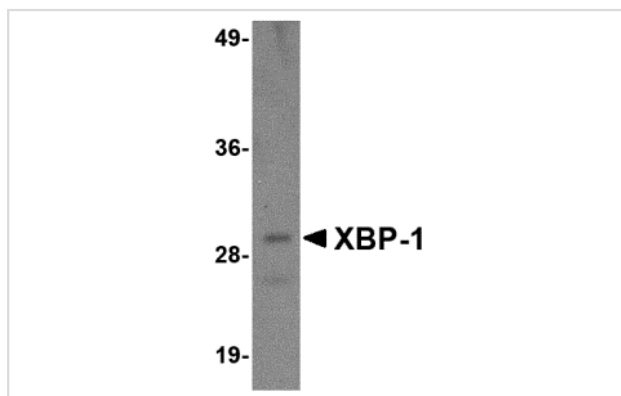
Catalog No: #26030

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## Description

Product Name	XBP-1 Monoclonal Antibody
Host Species	Mouse
Clonality	Monoclonal
Clone No.	mAb (Clone 3H1G4)
Purification	Immunoaffinity chromatography purified IgG
Applications	ELISA WB ICC
Species Reactivity	Hu Ms Rt
Immunogen Type	Recombinant protein
Immunogen Description	Raised against recombinant protein corresponding to amino acids 2 to 160 of human XBP-1.
Target Name	XBP-1
Other Names	XBP-1 (3H1G4), X box binding protein 1, Tax-responsive element binding protein 5
Accession No.	Swiss-Prot:P17861 Gene ID:7494
Uniprot	P17861
GeneID	7494;
Concentration	1mg/ml
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for one year.

## Images



Western blot analysis of 100 ng of XBP-1 recombinant protein with XBP-1 antibody at 1 ug/mL.



Immunocytochemistry of XBP-1 in HepG2 cells with XBP-1 antibody at 2 ug/mL.

## Background

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X box binding protein 1 (XBP-1) is a key protein in the mammalian unfolded protein response (UPR) that protects the cell against the stress of malfolded proteins in the endoplasmic reticulum (ER). Upon sensing unfolded proteins, an ER transmembrane endonuclease and kinase termed IRE1p is activated and excises an intron from XBP-1 mRNA. The spliced XBP-1 mRNA results in a 371 amino acid protein (XBP-1s) which is then translocated to the nucleus where it binds to the regulatory elements of downstream genes. Together with other UPR transcription factors such as ATF6, XBP-1 stimulates the production of ER stress proteins including the ER resident protein chaperones glucose regulated protein (GRP) 78 and GRP94.

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Note: This product is for in vitro research use only