Product Datasheet

XBP-1 Antibody

Catalog No: #24385

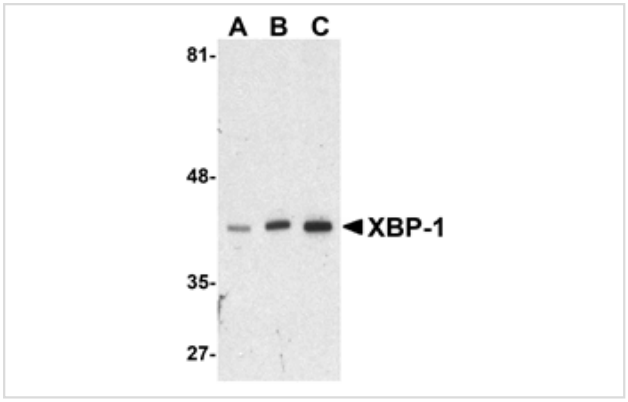
Package Size: #24385 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

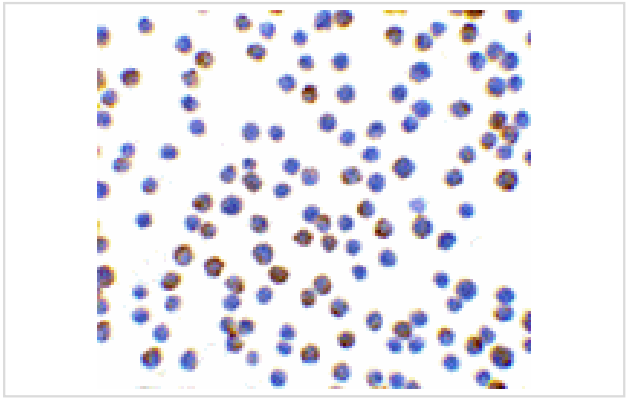
Description

Product Name	XBP-1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Affinity chromatography purified via peptide column
Applications	ELISA WB IHC
Species Reactivity	Human;Mouse
Immunogen Type	Peptide
Immunogen Description	Raised against a 18 amino acid peptide from near the amino terminus of human XBP-1.
Conjugates	Unconjugated
Target Name	XBP-1
Other Names	X box binding protein 1, Tax-responsive element binding protein 5
Accession No.	BAB82982
Concentration	1mg/ml
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

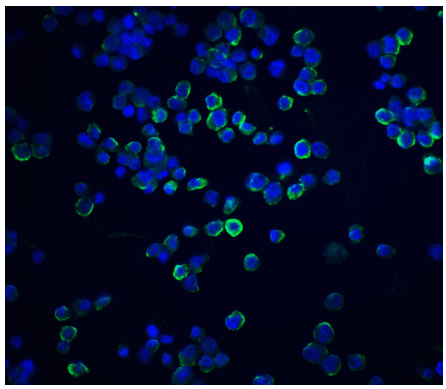
Images



Western blot analysis of XBP-1 in HepG2 cell lysate with XBP-1 antibody at (A) 0.5, (B) 1 and (C) 2 ug/mL.



Immunocytochemistry of XBP-1 in HepG2 cells with XBP-1 antibody at 10 ug/mL.



Immunofluorescence of XBP-1 in HepG2 cells with XBP-1 antibody at 20 µg/ml.

Background

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.

Published Papers

el at., CLOCK disruption aggravates carotid artery stenosis through endoplasmic reticulum stress-induced endothelial-mesenchymal transition. In Am J Transl Res on 2020 Dec 15 by Hanfei Tang, Song Xue, et al..PMID:33437367, , (2020)

PMID:33437367

Note: This product is for in vitro research use only and is not intended for use in humans or animals.