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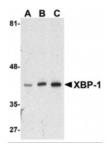
HIGH PERFORMANCE ANTIBODIES ... AND MORE

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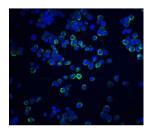
XBP-1 Antibody

CATALOG NUMBER: 3687

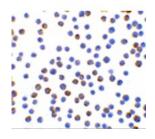


ALTERNATE NAMES:

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.



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



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

Disections reactivity based on immunogen sequence: Rat: (100%) IF, WB Dody can be used for the detection of XBP-1 by Western blot at 0.5 - 2 ug/mL. Antibody can also be nunocytochemistry starting at 10 ug/mL. For immunofluorescence start at 20 ug/mL. ions for each application to be determined by the researcher. 211 - HepG2 Cell Lysate Dody was raised against an 18 amino acid synthetic peptide from near the amino terminus of human argen is located within amino acids 40 - 90 of XBP-1.
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gen is located within amino acids 40 - 90 of XBP-1.
ody is affinity chromatography purified via peptide column.
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ody is affinity chromatography purified via peptide column.
ody is supplied in PBS containing 0.02% sodium azide.
ody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high s.
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XBP-1 Antibody: XBP2, TREB5, XBP-1, XBP2, X-box-binding protein 1, Tax-responsive element-binding protein

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ACCESSION NO.:	P17861
PROTEIN GI NO.:	60416406
OFFICIAL SYMBOL:	XBP1
GENE ID:	7494
Background	
BACKGROUND:	XBP-1 Antibody: 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.
REFERENCES:	1) Yoshida H, Matsui T, Yamamoto T, et al. XBP1 mRNA is induced by ATF6 and spliced by IRE1p in response to ER stress to produce a highly active transcription factor. Cell 2001; 107:881-91.
	2) Calfon M, Zeng H, Urano F, et al. IRE1 couples endoplasmic reticulum load to secretory capacity by processing the XBP-1 mRNA. Nature 2002; 415:92-6.
	3) Haze K, Yoshida H, Yanagi H, et al. Mammalian transcription factor ATF6 is synthesized as a transmembrane protein and activated by proteolysis in response to endoplasmic stress. Mol. Cell. Biol. 1999; 10:3787-99.
	4) Little E, Ramakrishnan M, Roy B, et al. The glucose-regulated proteins (GRP78 and GRP94): functions, gene regulation, and applications. Crit. Rev. Eukaryot. Gene Expr. 1994; 4:1-18.

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December 13, 2016