

Product datasheet for TA319737

XBP1 Mouse Monoclonal Antibody [Clone ID: 9B7E5]

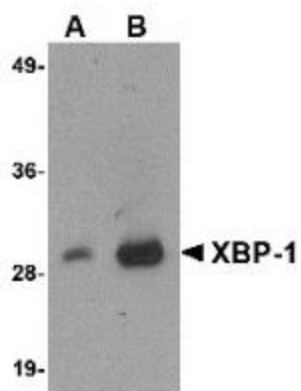
Product data:

Product Type:	Primary Antibodies
Clone Name:	9B7E5
Applications:	IF, WB
Recommend Dilution:	WB: 1 ug/mL, ICC: 2 ug/mL, IF: 4 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Immunogen:	Mouse monoclonal XBP-1 antibody was raised against recombinant protein corresponding to amino acids 2 to 160 of human XBP-1.
Formulation:	XBP-1 Monoclonal Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	XBP-1 Monoclonal Antibody is immunoaffinity chromatography purified IgG.
Gene Name:	X-box binding protein 1
Database Link:	NP_001073007 Entrez Gene 22433 Mouse Entrez Gene 289754 Rat Entrez Gene 7494 Human
Background:	XBP-1 Monoclonal 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 malformed 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.
Synonyms:	TREB-5; TREB5; XBP-1; XBP2
Protein Families:	Transcription Factors



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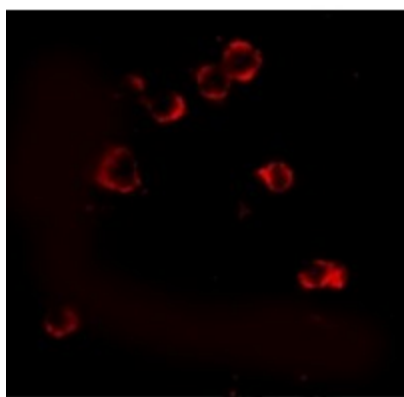
Product images:



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.



Immunofluorescence of XBP1 in HepG2 cells with XBP1 antibody at 2 ug/mL.