antibodies - online.com







anti-XBP1 antibody (AA 62-91)



Images



Quantity:	0.4 mL
Target:	XBP1
Binding Specificity:	AA 62-91
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This XBP1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS)
Product Details	
Immunogen:	A portion of amino acids 62-91 from the human protein was used as the immunogen for this
	XBP1 antibody.
Isotype:	Ig Fraction
Cross-Reactivity (Details):	Expected species reactivity: Mouse, Rat, Bovine
Purification:	Antigen affinity purified
Target Details	
Target Details	
Target:	XBP1
Alternative Name:	XBP1 (XBP1 Products)
Background:	XBP1 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.

UniProt:

P17861

Pathways:

ER-Nucleus Signaling, Unfolded Protein Response

Application Details

Application Notes:

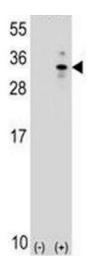
Titration of the XBP1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000,IHC (Paraffin): 1:50-1:100,Flow Cytometry: 1:10-1:50

Restrictions:

For Research Use only

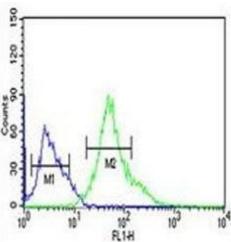
Handling

Format:	Liquid
Buffer:	In 1X PBS, pH 7.4, with 0.09 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Aliquot the XBP1 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



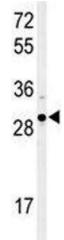
Western Blotting

Image 1. Western blot analysis of XBP1 antibody and 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (2) with the human gene.



Flow Cytometry

Image 2. XBP1 antibody flow cytometric analysis of Ramos cells (right histogram) compared to a negative control (left histogram). FITC-conjugated goat-anti-rabbit secondary Ab was used for the analysis.



Western Blotting

Image 3. Western blot analysis of XBP1 antibody and Ramos lysate. Predicted molecular weight: ~29 kDa (isoform 1) and ~40 kDa (isoform 2).

Please check the product details page for more images. Overall 6 images are available for ABIN3029642.