

Datasheet for ABIN7141844
anti-XBP1 antibody (AA 1-261)



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3 Images

Overview

Quantity:	100 µL
Target:	XBP1
Binding Specificity:	AA 1-261
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This XBP1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-261 of Human XBP1.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Affinity purification

Target Details

Target:	XBP1
Alternative Name:	XBP1 (XBP1 Products)
Background:	Background: This gene encodes a transcription factor that regulates MHC class II genes by

Target Details

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. The isoform encoded by the unspliced mRNA, XBP1(U), is constitutively expressed, and thought to function as a negative feedback regulator of XBP1(S), which shuts off transcription of target genes during the recovery phase of ER stress. A pseudogene of XBP1 has been identified and localized to chromosome 5.

Aliases: Tax responsive element binding protein 5 antibody, Tax-responsive element-binding protein 5 antibody, TREB5 antibody, X box binding protein 1 antibody, X box binding protein 2 antibody, X-box-binding protein 1 antibody, XBP 1 antibody, XBP-1 antibody, XBP1 antibody, XBP1_HUMAN antibody, XBP2 antibody

UniProt: [P17861](#)

Pathways: [ER-Nucleus Signaling](#), [Unfolded Protein Response](#)

Application Details

Application Notes: WB:1:500-1:2000, IF:1:50-1:200,

Restrictions: For Research Use only

Handling

Format: Liquid

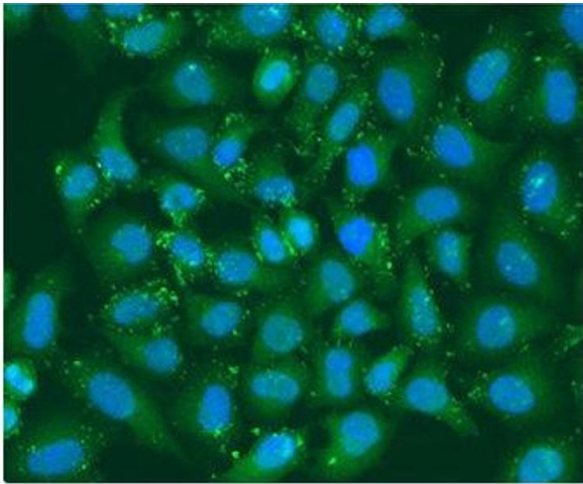
Buffer: Store at -20 °C or -80 °C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

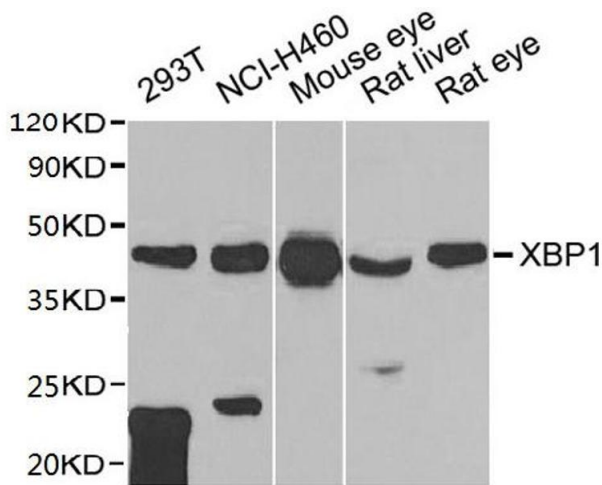
Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



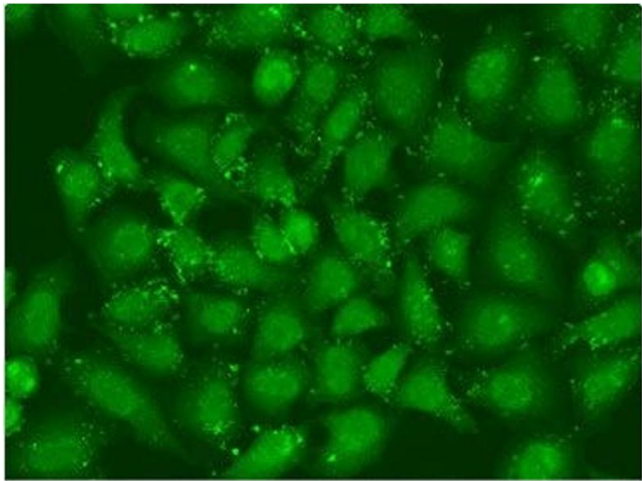
Immunofluorescence

Image 1. Immunofluorescence staining of U2OS cells with ABIN7141844 at 1:100, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Western Blotting

Image 2. Western blot All lanes: XBP1 antibody at 1:1000 dilution Lane 1: 293T whole cell lysate Lane 2: NCI-H460 whole cell lysate Lane 3: Mouse eye tissue Lane 4: Rat liver tissue Lane 5: Rat eye tissue Secondary Goat polyclonal to rabbit IgG at 1/10000 dilution Predicted band size: 29, 41 kDa Observed band size: 41 kDa



Immunofluorescence

Image 3. Immunofluorescent analysis of U2OS cells using ABIN7141844 at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).