

Datasheet for ABIN2855334

anti-XBP1 antibody

5 Images

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Overview

Quantity:	100 µL
Target:	XBP1
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This XBP1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human XBP1. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Rabbit polyclonal antibody to XBP1 (X-box binding protein 1), which recognizes XBP-1U (unspliced), or isoform 1. XBP1 antibody [N3C3]
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	XBP1
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Target Details

Alternative Name: X-box binding protein 1 ([XBP1 Products](#))

Background: This gene 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. 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.

Cellular Localization: Nucleus

Molecular Weight: 29 kDa

Gene ID: 7494

UniProt: [P17861](#)

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

Application Details

Application Notes: WB: 1:500-1:3000. ICC/IF: 1:100-1:1000. IHC-P: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.

Comment: Validation: Orthogonal

Restrictions: For Research Use only

Handling

Format: Liquid

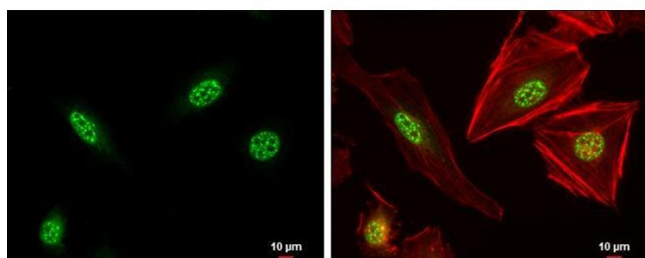
Concentration: 0.93 mg/mL

Buffer: 1XPBS (pH 7), 20 % Glycerol, 0.025 % ProClin 300

Handling

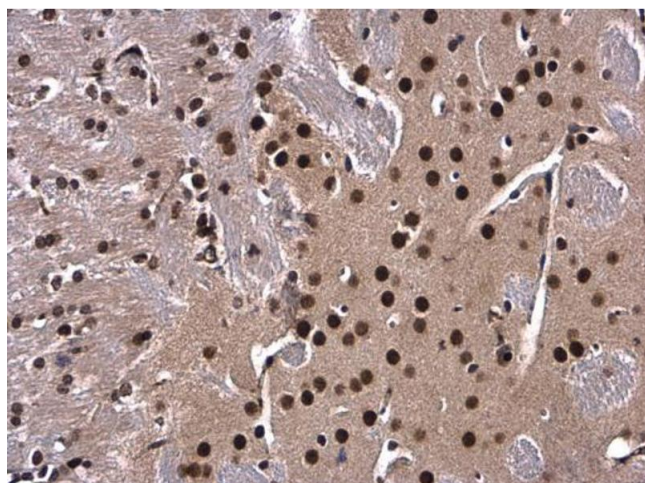
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Images



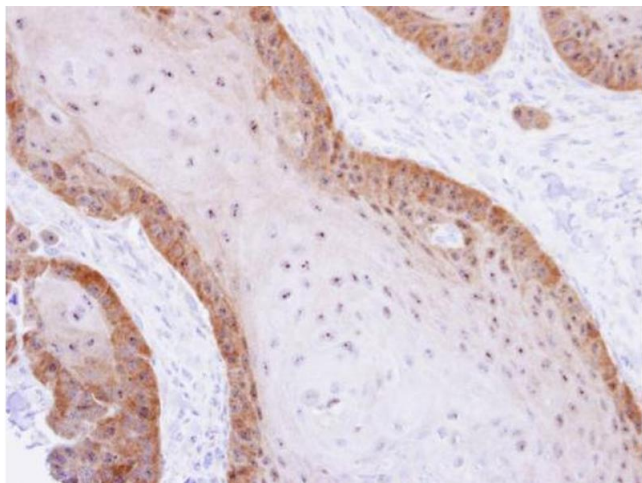
Immunofluorescence

Image 1. ICC/IF Image XBP1 antibody [N3C3] detects XBP1 protein at nucleus by immunofluorescent analysis. Sample: HeLa cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: XBP1 protein stained by XBP1 antibody [N3C3] , diluted at 1:500. Red: phalloidin, a cytoskeleton marker, stained by () diluted at 1:200. Blue: Hoechst 33342 staining. Scale bar = 10 µm.



Immunohistochemistry

Image 2. IHC-P Image XBP1 antibody [N3C3] detects XBP1 protein at nucleus in mouse brain by immunohistochemical analysis. Sample: Paraffin-embedded mouse brain. XBP1 antibody [N3C3] , diluted at 1:500.



Immunohistochemistry

Image 3. IHC-P Image Immunohistochemical analysis of paraffin-embedded Cal27 xenograft, using XBP1, antibody at 1:500 dilution.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN2855334.