

Datasheet for ABIN930955
anti-XBP1 antibody



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1 Image

Overview

| | |
|--------------|-------------------------------------|
| Quantity: | 100 µg |
| Target: | XBP1 |
| Reactivity: | Human |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This XBP1 antibody is un-conjugated |
| Application: | Dot Blot (DB) |

Product Details

| | |
|-----------------------------|---|
| Immunogen: | XBP1 antibody was raised in mouse using recombinant X-Box Binding Protein 1 |
| Clone: | XBP1H6E5 |
| Isotype: | IgG1 |
| Cross-Reactivity: | Human |
| Cross-Reactivity (Details): | Other species not studied. |
| Purification: | Protein G affinity chromatography |

Target Details

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

Target Details

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. Synonyms: Monoclonal XBP1 antibody, Anti-XBP1 antibody, Xbox binding protein 1 antibody, XBP2 antibody, TREB5 antibody.

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

Application Details

Application Notes: Optimal conditions should be determined by the investigator.

Restrictions: For Research Use only

Handling

Concentration: Lot specific

Buffer: XBP1 antibody in PBS (3.0 mM KCl, 1.5 mM KH₂ PO₄, 140 mM NaCl, 8.0 mM Na₂ HPO₄ (pH 7.4)) containing 1 % bovine serum albumin (BSA) and 0.05 % sodium azide (NaN₃).

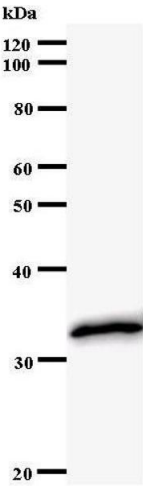
Preservative: Sodium azide

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

Handling Advice: Avoid repeated freeze/thaw cycles.
Dilute only prior to immediate use.

Storage: 4 °C/-20 °C

Storage Comment: Store at 2-8 °C for up to one year. We recommend long term storage at -20 °C.



Western Blotting

Image 1.