

Datasheet for ABIN2469226  
**XBP1 Protein (AA 2-160) (His tag)**



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1 Image

## Overview

Quantity:	0.05 mg
Target:	XBP1
Protein Characteristics:	AA 2-160
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This XBP1 protein is labelled with His tag.
Application:	Western Blotting (WB), ELISA, Mass Spectrometry (MS), Neutralization (Neut)

## Product Details

Purity: ~95 %

## Target Details

Target:	XBP1
Alternative Name:	XBP1 ( <a href="#">XBP1 Products</a> )
Background:	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 malfolded proteins in the endoplasmic reticulum (ER) (1). 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

## Target Details

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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 (3,4).

Molecular Weight: 25 kDa (Calculated)

Gene ID: 7494

OMIM: 18148382

UniProt: [P17861](#)

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

## Application Details

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Application Notes: This recombinant protein can be used for WB, ELISA, MS and neutralization assays.

Restrictions: For Research Use only

## Handling

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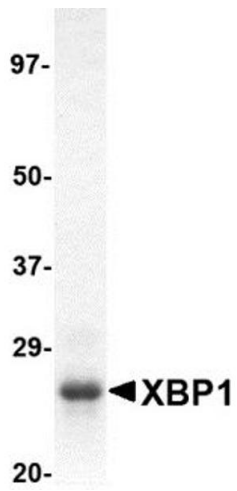
Format: Liquid

Buffer: 1X PBS containing 0.1 % SDS

Handling Advice: Avoid freeze/thaw cycles. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.

Storage: -80 °C

Storage Comment: Store in working aliquots at -70 °C.



Western Blotting

Image 1.