

Datasheet for ABIN656725
anti-XBP1 antibody (C-Term)[Go to Product page](#)

1 Image

1 Publication

Overview

Quantity:	400 µL
Target:	XBP1
Binding Specificity:	AA 217-244, C-Term
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This XBP1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This XBP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 217-244 amino acids from the C-terminal region of human XBP1.
Clone:	RB31994
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

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.

Molecular Weight: 28695

Gene ID: 7494

NCBI Accession: [NP_001073007](#), [NP_005071](#)

UniProt: [P17861](#)

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

Application Details

Application Notes: WB: 1:1000

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) 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: 4 °C,-20 °C

Storage Comment: XBP1 Antibody (C-term) can be refrigerated at 2-8 °C for up to 6 months. For long term storage, place the at -20 °C.

Handling

Expiry Date: 6 months

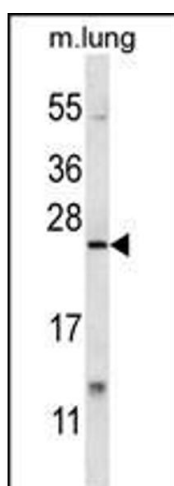
Publications

Product cited in: Davidson, Robinson, Rollinson, Pickering-Brown, Xiao, Robertson, Mann: "Immunohistochemical detection of C9orf72 protein in frontotemporal lobar degeneration and motor neurone disease: patterns of immunostaining and an evaluation of commercial antibodies." in: **Amyotrophic lateral sclerosis & frontotemporal degeneration**, Vol. 19, Issue 1-2, pp. 102-111, (2018) ([PubMed](#)).

Sullivan, Zhou, Robins, Paushter, Kim, Smolka, Hu: "The ALS/FTLD associated protein C9orf72 associates with SMCR8 and WDR41 to regulate the autophagy-lysosome pathway." in: **Acta neuropathologica communications**, Vol. 4, Issue 1, pp. 51, (2017) ([PubMed](#)).

Burberry, Suzuki, Wang, Moccia, Mordes, Stewart, Suzuki-Uematsu, Ghosh, Singh, Merkle, Koszka, Li, Zon, Rossi, Trowbridge, Notarangelo, Eggan: "Loss-of-function mutations in the C9ORF72 mouse ortholog cause fatal autoimmune disease." in: **Science translational medicine**, Vol. 8, Issue 347, pp. 347ra93, (2017) ([PubMed](#)).

Images



Western Blotting

Image 1. XBP1 Antibody (C-term) (ABIN656725 and ABIN2845950) western blot analysis in mouse lung tissue lysates (35 µg/lane). This demonstrates the XBP1 antibody detected the XBP1 protein (arrow).