

Product datasheet

Recombinant Human BBF2H7 protein ab202158

1 Image

Description

Product name	Recombinant Human BBF2H7 protein
Purity	> 90 % SDS-PAGE. ab202158 was purified by using conventional chromatography techniques.
Expression system	Escherichia coli
Accession	<u>Q70SY1</u>
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MGSSHHHHHHSSGLVPRGSHMGSMDEVLESGEQGVLQW DRKLSLSEPGDG EALMYHTHFSELLDEF SQNLGQLLNDPFLSEKSVSMEV EPSPTSPAPLI QAEHSYSLCEEPR AQSPFTHITSDSFNDDEVESEKWYLS TDFPSTSIKTE PITDEPPPGLVPSVTLTITAISTPLEKEEPPLEMNTGVDSSC QTIIPIKIK LEPHEVDQFLNFSPEAPVDHLHLPPTPPSSHGSDSEGS LSPNRLHPFS LPQTHSPSRAAPRAPSALSSSPLL TAPHKLQSGGPLVLTE EEKRTLIAEG YPIPTKLPLSKSEEKALKKIRRKIKNKISAQESRRKKKEYMD SLEKKVES CSTENLELRKKVEVLENTNRTLLQQLQKLQTLVMGKVSRT CKLAGTQTGT C
Predicted molecular weight	44 kDa including tags
Amino acids	1 to 378
Tags	His tag N-Terminus
Additional sequence information	AAI10814.

Specifications

Our **Abpromise guarantee** covers the use of **ab202158** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Mass Spectrometry SDS-PAGE
Mass spectrometry	MALDI-TOF
Form	Liquid
Additional notes	This product was previously labelled as CREB3L2

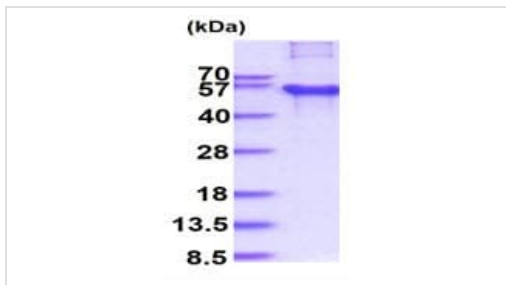
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 8 Constituents: 50% Glycerol (glycerin, glycerine), 0.02% DTT, 0.32% Tris HCl
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General Info

Function	Transcriptional activator which is processed and activated during endoplasmic reticulum stress late phase. Binds to the cAMP response element (CRE) and activates transcription through CRE. Regulates the transcription of unfolded protein response target genes, preventing accumulation of unfolded proteins in damaged neurons. Also regulates the expression of SEC23A, accelerating protein trafficking from the ER to the Golgi thereby playing a key role in chondrocyte differentiation and formation of epiphyseal cartilage.
Tissue specificity	Widely expressed with highest levels in placenta, lung, spleen and intestine, and lowest levels in heart, brain, skeletal muscle, thymus, colon and leukocytes. In fetal tissues, the weakest expression is detected in brain and heart.
Involvement in disease	A chromosomal aberration involving CREB3L2 is found in low grade fibromyxoid sarcoma (LGFMS). Translocation t(7;16)(q33;p11) with FUS.
Sequence similarities	Belongs to the bZIP family. ATF subfamily. Contains 1 bZIP (basic-leucine zipper) domain.
Post-translational modifications	Controlled by regulated intramembrane proteolysis (RIP). Following ER stress a fragment containing the cytoplasmic transcription factor domain is released by proteolysis. The cleavage seems to be performed sequentially by site-1 and site-2 proteases (PS1 and PS2).
Cellular localization	Endoplasmic reticulum membrane and Nucleus. Under ER stress the cleaved N-terminal cytoplasmic domain translocates into the nucleus.

Images



15% SDS-PAGE analysis of ab202158 (3 μ g).

SDS-PAGE - Recombinant Human BBF2H7 protein
(ab202158)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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