

Datasheet for ABIN3137624

**BAZ1B Protein (AA 1-1479) (His tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	1 mg
Target:	BAZ1B
Protein Characteristics:	AA 1-1479
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This BAZ1B protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

## Product Details

Sequence:	MAPLLGRKPF PLVKPLPGEE PLFTIPHTQE AFRTREEYEA RLERYSERIW TCKSTGSSQL THKEAWEEEQ EVAELLKEEF PNWYEKLVLE MVHHNTASLE KLVDSAWLEI MTKYAVGEEC DFEVGKEKML KVKIVKIHPL EKVDEEAVEK KSDGACDSPS SDKENSSQMA QDLQKKETV KEDEGRRESI NDRARRSPRK LPTSLKKGER KWAPPKFLPH KYDVKLQNEQ KIISNVPADS LIRTERPPNK EILRYFIRHN ALRAGTGENA PWVVEDELVK KYSLPSKFSD FLLDPYKYMT LNPSTKRRNT GSPDRKPSKK PKRDSSSLSS PLNPKLWCHV HLEKSLNGPP LKVKNSKNSK SPEEHLEGVM KIMSPNNNKL HSFHIPKKGK AAKKPGKHSD KPLKAKGRGK GILNGQKSTG NSKSPSKCVK TPKTKMKQMT LLDMAKGTQK MTRTPRSSGG VPRSSGKPHK HLPPAALHLI AAYKENKDKE DKKSALSCVI SKTARLLSNE DRARLPEELR ALVQKRYELL EHKRWASMS EEQRKEYLKK KRQELKERLR EKAKERRERE MLERLEKQKR FEDQELGGRN LPAFRLVDTP EGLPNTLFGD VALVVEFLSC YSGLLLPDAQ YPITAVSLME ALSADKGGFL YLNRVLVILL QTLLQDEIAE DYELGMKLS EIPLTLHSVS ELVRLCLRRR DVQEDSEGSE TDDNKDSTPF
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EDNEVQDEFL EKLETSEFFE LTSEEKLRL TALCHRILMT YSVQDHMETR QQVSAELWKE  
RLAVLKEEND KKRAEKQKRK EMEARNKENG KEENVLGKVD RKKEIVKIEQ QVEVEADDMI  
SAVKSRRLLS MQAKRKREIQ ERETKVRLER EAEERMRKH KAAAEKAFQE GIAKAKLVLR  
RTPIGTDRNH NRYWLFSNEV PGLFIEKGWV HNSIDYRFKH HRKDHSNLPD DDYCPRSKKA  
NLGKNASVNA HHGPALEAVE TTVPKQGQNL WFLCDSQKEL DELLSCLHPQ GIRESQLKER  
LEKRYQEITH SIYLARKPNL GLKSCDGNQE LLNFLRSDLI EVATRLQKGG LGYMEGTSEF  
EARVISLEKL KDFGECVIAL QASVIKKFLQ GFMAPKQKKR KLQSEDSTKS EEVDEEKKMV  
EEAKVASALE KWKTAIREAQ TFSRMHVLLG MLDACIKWDM SAENARCKVC RKKGEDDKLI  
LCDECNKAFH LFCLRPALYE VPDGEWQCPA CQPPTARRNS RGRNYTEEST SEGSEGDESG  
EEEEEEEEEE EEEEDYEVAG LRLRPRKTIR GKQSVIPAAR PGRPPGKKSH PARRSRPKDD  
PEVDDLVLQT KRISRRQSLE LQKCEDILHK LVKYRFSWPF REPVTRDEAE DYYDVIEHPM  
DFQTIQNKCS CGNYRSVQEF LTDMKQVFAN AELYNCRGSH VLSCMEKTEQ CLLALLQKHL  
PGHPYVRRKR RKFPDRLADD EGDSDSESVG QSRGRRQKK

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Baz1b Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use

## Product Details

the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:  1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.  2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

## Target Details

Target:	BAZ1B
Alternative Name:	Baz1b ( <a href="#">BAZ1B Products</a> )
Background:	<p>Atypical tyrosine-protein kinase that plays a central role in chromatin remodeling and acts as a transcription regulator. Involved in DNA damage response by phosphorylating 'Tyr-142' of histone H2AX (H2AXY142ph). H2AXY142ph plays a central role in DNA repair and acts as a mark that distinguishes between apoptotic and repair responses to genotoxic stress. Essential component of the WICH complex, a chromatin remodeling complex that mobilizes nucleosomes and reconfigures irregular chromatin to a regular nucleosomal array structure. The WICH complex regulates the transcription of various genes, has a role in RNA polymerase I and RNA polymerase III transcription, mediates the histone H2AX phosphorylation at 'Tyr-142', and is involved in the maintenance of chromatin structures during DNA replication processes. In the complex, it mediates the recruitment of the WICH complex to replication foci during DNA replication. {ECO:0000250, ECO:0000269 PubMed:16514417}.</p>
Molecular Weight:	171.6 kDa Including tag.
UniProt:	<a href="#">Q9Z277</a>
Pathways:	<a href="#">Nuclear Hormone Receptor Binding</a> , <a href="#">Chromatin Binding</a>

## Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

## Images



**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process