antibodies

## Datasheet for ABIN3136643 ERO1LB Protein (AA 34-467) (His tag)





Overview

Quantity:	1 mg
Target:	ER01LB
Protein Characteristics:	AA 34-467
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ERO1LB protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

## Product Details

ond dotonotioo.	Mouse Ero1b Protein (raised in Insect Cells) purified by multi-step, protein-specific process to
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> </ul>
	special request, please contact us.
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	RELQNFKALL QHRR
	DKCRLWGKLQ TQGLGTALKI LFSEKEIQNL PENSPSKGFQ LTRQEIVALL NAFGRLSTSI
	EDDADTKTLL LSIFQDTKSF PMHFDEKSMF AGDKKGAKSL KEEFRLHFKN ISRIMDCVGC
	PSWGPNIKEF RRRFDPVETK GEGPRRLKNL YFLYLIELRA LSKVAPYFER SIVDLYTGNV
	YRPLNPLAPS RGEDDGESFY TWLEGLCLEK RVFYKLISGL HASINLHLCA NYLLEETWGK
	WARYDDSQDH FCELDDERSP AAQYVDLLLN PERYTGYKGS SAWRVWNSIY EENCFKPRSV
	DCHVEPCPES KIPVGIKAGR SNKYSQAANS TKELDDCEQA NKLGAINSTL SNESKEAFID
Sequence:	QVTGVLDDCL CDIDSIDKFN TYKIFPKIKK LQERDYFRYY KVNLKRPCPF WAEDGHCSIK

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Target:	ERO1LB
Target Details	
Grade:	Crystallography grade
Endotoxin Level:	Protein is endotoxin free.
Sterility:	0.22 μm filtered
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Purification:	<ul> <li>Two step purification of proteins expressed in baculovirus infected SF9 insect cells:</li> <li>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.</li> <li>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.</li> </ul>
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	specific reference buffer.
	The protein's absorbance will be measured in several dilutions and is measured against its
	The concentration of our recombinant proteins is measured using the absorbance at 280nm.
	protein experts will do everything to make sure that you receive the protein you ordered.
	folded protein. With no financial risk on your end you can rest assured that our experienced
	experiments or purification optimization). When you order this made-to-order protein you will only pay upon receival of the correctly
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	(other companies might charge you for any performed steps in the expression process for
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	cannot be expressed or purified.
	made proteins from other companies is that there is no financial obligation in case the protein
	The big advantage of ordering our made-to-order proteins in comparison to ordering custom
	experts in the lab will ensure that you receive a correctly folded protein.
	This protein is a made to order protein and will be made for the first time for your order. Our

**Product Details** 

Ero1b (ERO1LB Products) Alternative Name:

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Target Details	
Background:	<ul> <li>Oxidoreductase involved in disulfide bond formation in the endoplasmic reticulum. Efficiently reoxidizes P4HB/PDI, the enzyme catalyzing protein disulfide formation, in order to allow P4HB to sustain additional rounds of disulfide formation. Other protein disulfide isomerase family members can also be reoxidized, but at lower rates compared to P4HB, including PDIA2, PDIA3, PDIA4, PDIA6 and NXNDC12. Following P4HB reoxidation, passes its electrons to molecular oxygen via FAD, leading to the production of reactive oxygen species (ROS) in the cell (By similarity). Involved in oxidative proinsulin folding in pancreatic cells, hence required for glucose homeostasis in vivo. {ECO:0000250, ECO:0000269 PubMed:20308425}.</li> </ul>
Molecular Weight:	51.1 kDa Including tag.
UniProt:	Q8R2E9
Pathways:	SARS-CoV-2 Protein Interactome
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 gurantee 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)

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

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