antibodies

Datasheet for ABIN3134532 OPA1 Protein (AA 114-960) (His tag)





Overview

Quantity:	1 mg
Target:	OPA1
Protein Characteristics:	AA 114-960
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This OPA1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	TAKKTFDEWK DMIPDLSDYK WIVPDFIWEI DEYIDLEKIR KALPSSEDLA SLAPDLDKIT
	ESLSLLKDFF TAGSPGETAF RATDHGSESD KHYRKVSDKE KIDQLQEELL HTQLKYQRIL
	ERLEKENKEL RKLVLQKDDK GIHHRKLKKS LIDMYSEVLD VLSDYDASYN TQDHLPRVVV
	VGDQSAGKTS VLEMIAQARI FPRGSGEMMT RSPVKVTLSE GPHHVALFKD SSREFDLTKE
	EDLAALRHEI ELRMRKNVKE GCTVSPETIS LNVKGPGLQR MVLVDLPGVI NTVTSGMAPD
	TKETIFSISK AYMQNPNAII LCIQDGSVDA ERSIVTDLVS QMDPHGRRTI FVLTKVDLAE
	KNVASPSRIQ QIIEGKLFPM KALGYFAVVT GKGNSSESIE AIREYEEEFF QNSKLLKTSM
	LKAHQVTTRN LSLAVSDCFW KMVRESVEQQ ADSFKATRFN LETEWKNNYP RLRELDRNEL
	FEKAKNEILD EVISLSQVTP KHWEEILQQS LWERVSTHVI ENIYLPAAQT MNSGTFNTTV
	DIKLKQWTDK QLPNKAVEVA WETLQEEFSR FMTEPKGKEH DDIFDKLKEA VKEESIKRHK
	WNDFAEDSLR VIQHNALEDR SISDKQQWDA AIYFMEEALQ GRLKDTENAI ENMIGPDWKK
	RWMYWKNRTQ EQCVHNETKN ELEKMLKVND EHPAYLASDE ITTVRKNLES RGVEVDPSLI

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LRQQLTNTEV RRLEKNYKEV LEDFAEDGEK KYKLLTGKRV QLAEDLKKVR EIQEKLDAFI FALHQE Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.Characteristics:• Made in Germany - from design to production - by highly experienced protein experts. • Mouse Opa1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process t 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 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 receival 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 2800m. 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 the Expasy's protparam tool to determine the absorption coefficient of each protein.Purification:Two step purification step, the protein is purified from the cleared cell ysate using three different
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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.

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Product Details

Grade:

Crystallography grade

Target Details

Target:	OPA1
Alternative Name:	Opa1 (OPA1 Products)
Background:	Dynamin-related GTPase required for mitochondrial fusion and regulation of apoptosis. May
	form a diffusion barrier for proteins stored in mitochondrial cristae. Proteolytic processing in
	response to intrinsic apoptotic signals may lead to disassembly of OPA1 oligomers and release
	of the caspase activator cytochrome C (CYCS) into the mitochondrial intermembrane space.
	May also play a role in mitochondrial genome maintenance. {EC0:0000250 UniProtKB:060313,
	EC0:0000269 PubMed:16839884, EC0:0000269 PubMed:16839885,
	ECO:0000269 PubMed:20038678}., Dynamin-like 120 kDa protein, form S1: Inactive form
	produced by cleavage at S1 position by OMA1 following stress conditions that induce loss of
	mitochondrial membrane potential, leading to negative regulation of mitochondrial fusion.
	{ECO:0000269 PubMed:22433842}.
Molecular Weight:	99.4 kDa Including tag.
UniProt:	P58281
Pathways:	Tube Formation
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	
Handling Format:	Liquid

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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