antibodies

Datasheet for ABIN3134534 OPA1 Protein (AA 88-960) (rho-1D4 tag)



Overview

Image

Quantity:	1 mg
Target:	OPA1
Protein Characteristics:	AA 88-960
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This OPA1 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	FWPARLAARL LKLRYIILGS AVGGGYTAKK TFDEWKDMIP DLSDYKWIVP DFIWEIDEYI
	DLEKIRKALP SSEDLASLAP DLDKITESLS LLKDFFTAGS PGETAFRATD HGSESDKHYR
	KVSDKEKIDQ LQEELLHTQL KYQRILERLE KENKELRKLV LQKDDKGIHH RKLKKSLIDM
	YSEVLDVLSD YDASYNTQDH LPRVVVVGDQ SAGKTSVLEM IAQARIFPRG SGEMMTRSPV
	KVTLSEGPHH VALFKDSSRE FDLTKEEDLA ALRHEIELRM RKNVKEGCTV SPETISLNVK
	GPGLQRMVLV DLPGVINTVT SGMAPDTKET IFSISKAYMQ NPNAIILCIQ DGSVDAERSI
	VTDLVSQMDP HGRRTIFVLT KVDLAEKNVA SPSRIQQIIE GKLFPMKALG YFAVVTGKGN
	SSESIEAIRE YEEEFFQNSK LLKTSMLKAH QVTTRNLSLA VSDCFWKMVR ESVEQQADSF
	KATRFNLETE WKNNYPRLRE LDRNELFEKA KNEILDEVIS LSQVTPKHWE EILQQSLWER
	VSTHVIENIY LPAAQTMNSG TFNTTVDIKL KQWTDKQLPN KAVEVAWETL QEEFSRFMTE
	PKGKEHDDIF DKLKEAVKEE SIKRHKWNDF AEDSLRVIQH NALEDRSISD KQQWDAAIYF
	MEEALQGRLK DTENAIENMI GPDWKKRWMY WKNRTQEQCV HNETKNELEK MLKVNDEHPA

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	YLASDEITTV RKNLESRGVE VDPSLIKDTW HQVYRRHFLK TALNHCNLCR RGFYYYQRHF
	IDSELECNDV VLFWRIQRML AITANTLRQQ LTNTEVRRLE KNVKEVLEDF AEDGEKKVKL
	LTGKRVQLAE DLKKVREIQE KLDAFIEALH QEK
	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 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 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 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
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Three step purification of membrane proteins expressed in baculovirus infected SF9 insect
	cells:
	 Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot. The best performing detergent is used for solubilization and the proteins are purified via thei rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and Western blot.

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Product Details	
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:	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:O60313, EC0:0000269 PubMed:16839884, EC0:0000269 PubMed:16839885, EC0:0000269 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. {EC0:0000269 PubMed:22433842}.
Molecular Weight:	102.4 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

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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