antibodies

## Datasheet for ABIN3136192 SUN2 Protein (AA 1-731) (rho-1D4 tag)



1 Image



Quantity:	1 mg
Target:	SUN2
Protein Characteristics:	AA 1-731
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SUN2 protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

## Product Details

Sequence:	MSRRSQRLTR YSQDDNDGGS SSSGASSVAG SQGTVFKDSP LRTLKRKSSN MKHLSPAPQL
	GPSSDSHTSY YSESVVRESY IGSPRAVSLA RSALLDDHLH SEPYWSGDLR GRRRRGTGGS
	ESSKANGLTA ESKASEDFFG SSSGYSSEDD LAGYTDSDQH SSGSRLRSAA SRAGSFVWTL
	VTFPGRLFGL LYWWIGTTWY RLTTAASLLD VFVLTRSRHF SLNLKSFLWF LLLLLLTGL
	TYGAWHFYPL GLQTLQPAVV SWWAAKESRK QPEVWESRDA SQHFQAEQRV LSRVHSLERR
	LEALAADFSS NWQKEAIRLE RLELRQGAAG HGGGSSLSHE DALSLLEGLV SRREATLKED
	LRRDTVAHIQ EELATLRAEH HQDSEDLFKK IVQASQESEA RVQQLKTEWK SMTQEAFQES
	SVKELGRLEA QLASLRQELA ALTLKQNSVA DEVGLLPQKI QAARADVESQ FPDWIRQFLL
	GDRGARSGLL QRDEMHAQLQ ELENKILTKM AEMQGKSARE AAASLGQILQ KEGIVGVTEE
	QVHRIVKQAL QRYSEDRIGM VDYALESGGA SVISTRCSET YETKTALLSL FGIPLWYHSQ
	SPRVILQPDV HPGNCWAFQG PQGFAVVRLS ARIRPTAVTL EHVPKALSPN STISSAPKDF
	AIFGFDEDLQ QEGTLLGTFA YDQDGEPIQT FYFQASKMAT YQVVELRILT NWGHPEYTCI

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3136192 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

	YRFRVHGEPA H
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Mouse Sun2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	This protein is a mode to order protein and will be prode for the first time for your order. Our
	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:
	<ol> <li>Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.</li> <li>The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.</li> </ol>
	3. 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.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 μm filtered

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN3136192 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

Product Details	
Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade

## Target Details

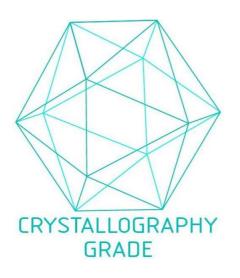
Target:	SUN2
Alternative Name:	Sun2 (SUN2 Products)
Background:	Component of SUN-protein-containing multivariate complexes also called LINC complexes
	which link the nucleoskeleton and cytoskeleton by providing versatile outer nuclear membrane
	attachment sites for cytoskeletal filaments. Specifically, Syne2 and Sun2 assemble in arrays of
	transmembrane actin-associated nuclear (TAN) lines which are bound to F-actin cables and
	couple the nucleus to retrograde actin flow during actin-dependent nuclear movement.
	Required for interkinetic nuclear migration (INM) and essential for nucleokinesis and
	centrosome-nucleus coupling during radial neuronal migration in the cerebral cortex and during
	glial migration. Anchors chromosome movement in the prophase of meiosis and is involved in
	selective gene expression of coding and non-coding RNAs needed for gametogenesis. Required
	for telomere attachment to nuclear envelope and gametogenesis. May also function on
	endocytic vesicles as a receptor for Rab5-GDP and participate in the activation of Rab5.
	{ECO:0000269 PubMed:16380439, ECO:0000269 PubMed:19509342,
	ECO:0000269 PubMed:19843581, ECO:0000269 PubMed:19874786,
	ECO:0000269 PubMed:20724637}.
Molecular Weight:	82.8 kDa Including tag.
UniProt:	Q8BJS4
Pathways:	Maintenance of Protein Location, SARS-CoV-2 Protein Interactome, The Global Phosphorylation
	Landscape of SARS-CoV-2 Infection
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

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN3136192 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

Application Details	
	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