# antibodies

# Datasheet for ABIN3135131 Integrin alpha 1 Protein (ITGA1) (AA 29-1179) (rho-1D4 tag)



Overview

Image

Quantity:	1 mg
Target:	Integrin alpha 1 (ITGA1)
Protein Characteristics:	AA 29-1179
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Integrin alpha 1 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

# Product Details

Sequence:	FNVDVKNSMS FSGPVEDMFG YTVQQYENEE GKWVLIGSPL VGQPKARTGD VYKCPVGRER
	SMPCVKLDLP VNTSIPNVTE IKENMTFGST LVTNPKGGFL ACGPLYAYRC GHLHYTTGIC
	SDVSPTFQVV NSFAPVQECS TQLDIVIVLD GSNSIYPWES VTAFLNDLLK RMDIGPKQTQ
	VGIVQYGANV THEFNLNKYS STEEVLVAAN KIGRRGGLQT MTALGIDTAR KEAFTEARGA
	RRGVKKVMVI VTDGESHDNY RLKQVIQDCE DENIQRFSIA ILGHYNRGNL STEKFVEEIK
	SIASEPTEKH FFNVSDELAL VTIVKALGER IFALEATADQ SAASFEMEMS QTGFSAHYSQ
	DWVMLGAVGA YDWNGTVVMQ KANQIVIPHN TTFQTEPTKM NEPLASYLGY TVNSATIPGD
	VLYIAGQPRY NHTGQVVIYK MEDGDVNILQ TLSGEQIGSY FGSVLTTIDI DKDSYTDLLL
	VGAPMYMGTE KEEQGKVYVY AVNQTRFEYQ MSLEPIKQTC CSSLKDNSCT KENKNEPCGA
	RFGTAVAAVK DLNVDGFNDV VIGAPLEDDH AGAVYIYHGS GKTIRKEYAQ RIPSGGDGKT
	LKFFGQSIHG EMDLNGDGLT DVTIGGLGGA ALFWARDVAV VKVTMNFEPN KVNIQKKNCR
	VEGKETVCIN ATMCFHVKLK SKEDSVYEAD LQYRVTLDSL RQISRSFFSG TQERRIQRNL

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	TVRESECIRH SFYMLDKHDF QDSVRVTLDF NLTDPENGPV LDDALPNSVH GHIPFAKDCG
	NKERCVSDLT LDVSTTEKNL LIVRSQNDKF NVSLTVKNKG DSAYNTRTVV QYSPNLIFSG
	IEEIQKDSCE SNQNITCRVG YPFLRTGDVV NFKIIFQFNT SHLSENAIIH LSATSDSEEP
	LESLYDNEVN ISIPVKYEVG LQFYSSASEH HISVAANETV PELINSTKDI GDEINVFYTI
	RKRGHFPMPE LRLAISFPNL TSDGYPVLYP TGWSSSDNVN CRPRSLEDPL GINSGKKMTI
	SKSEVLKRGT IQDCSTCKIA TITCHLLPSD VSQVNVSLIL WKPTFIKAHF SSLNLTIRGE
	LQSENSSLTL SSSNRKRELA IQISKDGLPG RVPLWVILLS AFAGLLLLML LILALWKIGF
	FKRPLKKKME K
	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 Itga1 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 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:
	1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with

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	2. 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.
	<ol> <li>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.</li> </ol>
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:	Integrin alpha 1 (ITGA1)
Alternative Name:	Itga1 (ITGA1 Products)
Background:	Integrin alpha-1/beta-1 is a receptor for laminin and collagen. It recognizes the proline- hydroxylated sequence G-F-P-G-E-R in collagen. Involved in anchorage-dependent, negative regulation of EGF-stimulated cell growth. {ECO:0000269 PubMed:15592458}.
Molecular Weight:	129.0 kDa Including tag.
UniProt:	Q3V3R4
Pathways:	EGFR Signaling Pathway, CXCR4-mediated Signaling Events, Signaling of Hepatocyte Growth Factor Receptor, Integrin Complex

#### **Application Details**

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:

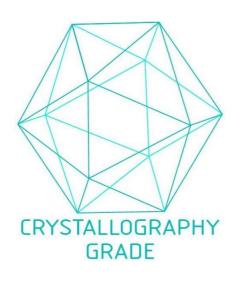
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### Handling

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