antibodies

# Datasheet for ABIN3093137 ITGA7 Protein (AA 34-1082) (His tag)

I Image



### Overview

Quantity:	1 mg
Target:	ITGA7
Protein Characteristics:	AA 34-1082
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ITGA7 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

## Product Details

Sequence:	FNLDVMGALR KEGEPGSLFG FSVALHRQLQ PRPQSWLLVG APQALALPGQ QANRTGGLFA
	CPLSLEETDC YRVDIDQGAD MQKESKENQW LGVSVRSQGP GGKIVTCAHR YEARQRVDQI
	LETRDMIGRC FVLSQDLAIR DELDGGEWKF CEGRPQGHEQ FGFCQQGTAA AFSPDSHYLL
	FGAPGTYNWK GTARVELCAQ GSADLAHLDD GPYEAGGEKE QDPRLIPVPA NSYFGLLFVT
	NIDSSDPDQL VYKTLDPADR LPGPAGDLAL NSYLGFSIDS GKGLVRAEEL SFVAGAPRAN
	HKGAVVILRK DSASRLVPEV MLSGERLTSG FGYSLAVADL NSDGWPDLIV GAPYFFERQE
	ELGGAVYVYL NQGGHWAGIS PLRLCGSPDS MFGISLAVLG DLNQDGFPDI AVGAPFDGDG
	KVFIYHGSSL GVVAKPSQVL EGEAVGIKSF GYSLSGSLDM DGNQYPDLLV GSLADTAVLF
	RARPILHVSH EVSIAPRSID LEQPNCAGGH SVCVDLRVCF SYIAVPSSYS PTVALDYVLD
	ADTDRRLRGQ VPRVTFLSRN LEEPKHQASG TVWLKHQHDR VCGDAMFQLQ ENVKDKLRAI
	VVTLSYSLQT PRLRRQAPGQ GLPPVAPILN AHQPSTQRAE IHFLKQGCGE DKICQSNLQL
	VRARFCTRVS DTEFQPLPMD VDGTTALFAL SGQPVIGLEL MVTNLPSDPA QPQADGDDAH

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	EAQLLVMLPD SLHYSGVRAL DPAEKPLCLS NENASHVECE LGNPMKRGAQ VTFYLILSTS
	GISIETTELE VELLLATISE QELHPVSARA RVFIELPLSI AGMAIPQQLF FSGVVRGERA
	MQSERDVGSK VKYEVTVSNQ GQSLRTLGSA FLNIMWPHEI ANGKWLLYPM QVELEGGQGP
	GQKGLCSPRP NILHLDVDSR DRRRRELEPP EQQEPGERQE PSMSWWPVSS AEKKKNITLD
	CARGTANCVV FSCPLYSFDR AAVLHVWGRL WNSTFLEEYS AVKSLEVIVR ANITVKSSIK
	NLMLRDASTV IPVMVYLDPM AVVAEGVPW
	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>Human ITGA7 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> </ul>
	• 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:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	<ol> <li>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>Protein containing fractions of the best purification are subjected to second purification step</li> </ol>
	through size exclusion chromatography. 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:	ITGA7
Alternative Name:	ITGA7 (ITGA7 Products)
Background:	Integrin alpha-7/beta-1 is the primary laminin receptor on skeletal myoblasts and adult myofibers. During myogenic differentiation, it may induce changes in the shape and mobility of myoblasts, and facilitate their localization at laminin-rich sites of secondary fiber formation. It is involved in the maintenance of the myofibers cytoarchitecture as well as for their anchorage, viability and functional integrity. Isoform Alpha-7X2B and isoform Alpha-7X1B promote myoblast migration on laminin 1 and laminin 2/4, but isoform Alpha-7X1B is less active on laminin 1 (In vitro). Acts as Schwann cell receptor for laminin-2. Acts as a receptor of COMP and mediates its effect on vascular smooth muscle cells (VSMCs) maturation (By similarity). Required to promote contractile phenotype acquisition in differentiated airway smooth muscle (ASM) cells. {ECO:0000250, ECO:0000269 PubMed:10694445, ECO:0000269 PubMed:17641293, ECO:0000269 PubMed:9307969}.
Molecular Weight:	115.5 kDa Including tag.
UniProt:	Q13683
Pathways:	Integrin Complex
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:	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.

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## Application Details

#### 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