

Datasheet for ABIN3135450 ITGA7 Protein (AA 34-1076) (His tag)



Overview	
Quantity:	1 mg
Target:	ITGA7
Protein Characteristics:	AA 34-1076
Origin:	Mouse
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:	FNLDVMGAIR KEGEPGSLFG FSVALHRQLQ PRPQSWLLVG APQALALPGQ QANRTGGLFA
	CPLSLEETDC YRVDIDRGAN VQKESKENQW LGVSVRSQGA GGKIVTCAHR YESRQRVDQA
	LETRDVIGRC FVLSQDLAIR DELDGGEWKF CEGRPQGHEQ FGFCQQGTAA TFSPDSHYLV
	FGAPGTYNWK GTARVELCAQ GSPDLAHLDD GPYEAGGEKE QDPRLIPVPA NSYLGLLFVT
	NIDSSDPDQL VYKTLDPADR LTGPAGDLTL NSYLGFSIDS GKGLMRSEEL SFVAGAPRAN
	HKGAVVILRK DSATRLIPEV VLSGERLTSG FGYSLAVTDL NNDGWADLIV GAPYFFERQE
	ELGGAVYVYM NQGGHWADIS PLRICGSPDS MFGISLAVLG DLNQDGFPDI AVGAPFDGDG
	KVFIYHGSSL GVVVKPSQVL EGEAVGIKSF GYSLSGGLDV DGNHYPDLLV GSLADTAALF
	RARPVLHVSQ EIFIDPRAID LEQPNCADGR LVCVDIKICF SYVAVPSSYS PSVALDYMLD
	GDTDRRLRGQ VPRVTFLSRG LDDLRHQSSG TVWLKHQHDR VCGDTVFQLQ ENVKDKLRAI
	VVTLSYGLRT PPLGRQAPGQ ELPTVAPILN AHQPSTQRTE IHFLKQGCGQ DKICQSNLQL
	ERYQFCSRIS DTEFQALPMD LDGRTALFAL SGQPFIGLEL TVTNLPSDPS RPQADGDDAH

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	EAQLLVTLPA SLRYSGVRAL DSVEKPLCLS NDSASHVECE LGNPMKRGAQ VTFYLILSTS
	GITIETTELE VKLLLATISE QELDPVSVRA HVFIELPLSI SGVATPQQLF FSGEVKGESA
	MRSERELGRK VKYEVTVSNQ GQSLNTLGSA NLNIMWPHEI ANGKWLLYPM RVELEGGQGP
	GKRGICSPRP NILQLDVDSR DRRRRELGQP EPQEPPEKVE PSTSWWPVSS AEKRNMTLDC
	PRTAKCVVFS CPLYSFDRAA VLHVWGRLWN STFLEEYMAV KSLEVIVRAN ITVKSSIKNL
	LLRDASTVIP VMVYLDPMAV VVE
	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 Itga7 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:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	 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.
	 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.

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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. Involved in the maintenance of the myofibers cytoarchitecture as well as for their anchorage, viability and functional integrity. Mice carrying a ITGA7 null allele are viable and fertile, but show progressive muscular dystrophy starting soon after birth, but with a distinct variability in different muscle types. Required to promote contractile phenotype acquisition in differentiated airway smooth muscle (ASM) cells. 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). {EC0:000250, EC0:000269 PubMed:9354797}.
Molecular Weight:	115.1 kDa Including tag.
UniProt:	Q61738
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:	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)