antibodies

Datasheet for ABIN3113259 Integrin beta 7 Protein (ITGB7) (AA 20-798) (rho-1D4 tag)



Overview

Image

Quantity:	1 mg
Target:	Integrin beta 7 (ITGB7)
Protein Characteristics:	AA 20-798
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Integrin beta 7 protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	ELDAKIPSTG DATEWRNPHL SMLGSCQPAP SCQKCILSHP SCAWCKQLNF TASGEAEARR
	CARREELLAR GCPLEELEEP RGQQEVLQDQ PLSQGARGEG ATQLAPQRVR VTLRPGEPQQ
	LQVRFLRAEG YPVDLYYLMD LSYSMKDDLE RVRQLGHALL VRLQEVTHSV RIGFGSFVDK
	TVLPFVSTVP SKLRHPCPTR LERCQSPFSF HHVLSLTGDA QAFEREVGRQ SVSGNLDSPE
	GGFDAILQAA LCQEQIGWRN VSRLLVFTSD DTFHTAGDGK LGGIFMPSDG HCHLDSNGLY
	SRSTEFDYPS VGQVAQALSA ANIQPIFAVT SAALPVYQEL SKLIPKSAVG ELSEDSSNVV
	QLIMDAYNSL SSTVTLEHSS LPPGVHISYE SQCEGPEKRE GKAEDRGQCN HVRINQTVTF
	WVSLQATHCL PEPHLLRLRA LGFSEELIVE LHTLCDCNCS DTQPQAPHCS DGQGHLQCGV
	CSCAPGRLGR LCECSVAELS SPDLESGCRA PNGTGPLCSG KGHCQCGRCS CSGQSSGHLC
	ECDDASCERH EGILCGGFGR CQCGVCHCHA NRTGRACECS GDMDSCISPE GGLCSGHGRC
	KCNRCQCLDG YYGALCDQCP GCKTPCERHR DCAECGAFRT GPLATNCSTA CAHTNVTLAL
	APILDDGWCK ERTLDNQLFF FLVEDDARGT VVLRVRPQEK GADHTQAIVL GCVGGIVAVG

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	LGLVLAYRLS VEIYDRREYS RFEKEQQQLN WKQDSNPLYK SAITTTINPR FQEADSPTL
	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. Human ITGB7 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:
	1. 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 their 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.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered

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Product Details	
Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade
Target Details	
Target:	Integrin beta 7 (ITGB7)
Alternative Name:	ITGB7 (ITGB7 Products)
Background:	Integrin alpha-4/beta-7 (Peyer patches-specific homing receptor LPAM-1) is an adhesion molecule that mediates lymphocyte migration and homing to gut-associated lymphoid tissue (GALT). Integrin alpha-4/beta-7 interacts with the cell surface adhesion molecules MADCAM1 which is normally expressed by the vascular endothelium of the gastrointestinal tract. Interacts also with VCAM1 and fibronectin, an extracellular matrix component. It recognizes one or more domains within the alternatively spliced CS-1 region of fibronectin. Interactions involves the tripeptide L-D-T in MADCAM1, and L-D-V in fibronectin. Binds to HIV-1 gp120, thereby allowing the virus to enter GALT, which is thought to be the major trigger of AIDS disease. Interaction would involve a tripeptide L-D-I in HIV-1 gp120. Integrin alpha-E/beta-7 (HML-1) is a receptor for E-cadherin.
Molecular Weight:	86.1 kDa Including tag.
UniProt:	P26010
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.
Restrictions:	For Research Use only
Handling	
Format:	Liquid

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Handling		
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

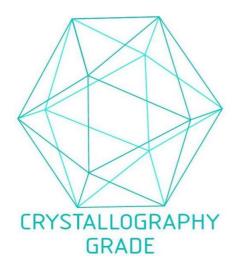


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process