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Datasheet for ABIN3093168 Integrin beta 4 Protein (ITGB4) (AA 28-710) (His tag)



Overview

Image

Quantity:	1 mg
Target:	Integrin beta 4 (ITGB4)
Protein Characteristics:	AA 28-710
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Integrin beta 4 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	NRCKKAPVKS CTECVRVDKD CAYCTDEMFR DRRCNTQAEL LAAGCQRESI VVMESSFQIT
	EETQIDTTLR RSQMSPQGLR VRLRPGEERH FELEVFEPLE SPVDLYILMD FSNSMSDDLD
	NLKKMGQNLA RVLSQLTSDY TIGFGKFVDK VSVPQTDMRP EKLKEPWPNS DPPFSFKNVI
	SLTEDVDEFR NKLQGERISG NLDAPEGGFD AILQTAVCTR DIGWRPDSTH LLVFSTESAF
	HYEADGANVL AGIMSRNDER CHLDTTGTYT QYRTQDYPSV PTLVRLLAKH NIIPIFAVTN
	YSYSYYEKLH TYFPVSSLGV LQEDSSNIVE LLEEAFNRIR SNLDIRALDS PRGLRTEVTS
	KMFQKTRTGS FHIRRGEVGI YQVQLRALEH VDGTHVCQLP EDQKGNIHLK PSFSDGLKMD
	AGIICDVCTC ELQKEVRSAR CSFNGDFVCG QCVCSEGWSG QTCNCSTGSL SDIQPCLREG
	EDKPCSGRGE CQCGHCVCYG EGRYEGQFCE YDNFQCPRTS GFLCNDRGRC SMGQCVCEPG
	WTGPSCDCPL SNATCIDSNG GICNGRGHCE CGRCHCHQQS LYTDTICEIN YSAIHPGLCE
	DLRSCVQCQA WGTGEKKGRT CEECNFKVKM VDELKRAEEV VVRCSFRDED DDCTYSYTME
	GDGAPGPNST VLVHKKKDCP PGS

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	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 ITGB4 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.
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

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Target Details	
Target:	Integrin beta 4 (ITGB4)
Alternative Name:	ITGB4 (ITGB4 Products)
Background:	Integrin alpha-6/beta-4 is a receptor for laminin. Plays a critical structural role in the hemidesmosome of epithelial cells. Is required for the regulation of keratinocyte polarity and motility. ITGA6:ITGB4 binds to NRG1 (via EGF domain) and this binding is essential for NRG1- ERBB signaling (PubMed:20682778). ITGA6:ITGB4 binds to IGF1 and this binding is essential for IGF1 signaling (PubMed:22351760). {ECO:0000269 PubMed:12482924, ECO:0000269 PubMed:19403692, ECO:0000269 PubMed:20682778, ECO:0000269 PubMed:22351760}.
Molecular Weight:	77.5 kDa Including tag.
UniProt:	P16144
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
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)

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

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