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Datasheet for ABIN3111911 Integrin beta 2 Protein (ITGB2) (AA 23-769) (rho-1D4 tag)



Overview

Image

Quantity:	1 mg
Target:	Integrin beta 2 (ITGB2)
Protein Characteristics:	AA 23-769
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Integrin beta 2 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	QECTKFKVSS CRECIESGPG CTWCQKLNFT GPGDPDSIRC DTRPQLLMRG CAADDIMDPT
	SLAETQEDHN GGQKQLSPQK VTLYLRPGQA AAFNVTFRRA KGYPIDLYYL MDLSYSMLDD
	LRNVKKLGGD LLRALNEITE SGRIGFGSFV DKTVLPFVNT HPDKLRNPCP NKEKECQPPF
	AFRHVLKLTN NSNQFQTEVG KQLISGNLDA PEGGLDAMMQ VAACPEEIGW RNVTRLLVFA
	TDDGFHFAGD GKLGAILTPN DGRCHLEDNL YKRSNEFDYP SVGQLAHKLA ENNIQPIFAV
	TSRMVKTYEK LTEIIPKSAV GELSEDSSNV VQLIKNAYNK LSSRVFLDHN ALPDTLKVTY
	DSFCSNGVTH RNQPRGDCDG VQINVPITFQ VKVTATECIQ EQSFVIRALG FTDIVTVQVL
	PQCECRCRDQ SRDRSLCHGK GFLECGICRC DTGYIGKNCE CQTQGRSSQE LEGSCRKDNN
	SIICSGLGDC VCGQCLCHTS DVPGKLIYGQ YCECDTINCE RYNGQVCGGP GRGLCFCGKC
	RCHPGFEGSA CQCERTTEGC LNPRRVECSG RGRCRCNVCE CHSGYQLPLC QECPGCPSPC
	GKYISCAECL KFEKGPFGKN CSAACPGLQL SNNPVKGRTC KERDSEGCWV AYTLEQQDGM
	DRYLIYVDES RECVAGPNIA AIVGGTVAGI VLIGILLLVI WKALIHLSDL REYRRFEKEK

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	LKSQWNNDNP LFKSATTTVM NPKFAES
	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 ITGB2 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).
	· State-or-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:
	 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.
	3. 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 2 (ITGB2)	
Alternative Name:	ITGB2 (ITGB2 Products)	
Background:	Integrin alpha-L/beta-2 is a receptor for ICAM1, ICAM2, ICAM3 and ICAM4. Integrins alpha- M/beta-2 and alpha-X/beta-2 are receptors for the iC3b fragment of the third complement component and for fibrinogen. Integrin alpha-X/beta-2 recognizes the sequence G-P-R in fibrinogen alpha-chain. Integrin alpha-M/beta-2 recognizes P1 and P2 peptides of fibrinogen gamma chain. Integrin alpha-M/beta-2 is also a receptor for factor X. Integrin alpha-D/beta-2 is a receptor for ICAM3 and VCAM1. Triggers neutrophil transmigration during lung injury through PTK2B/PYK2-mediated activation. {ECO:0000269 PubMed:18587400}.	
Molecular Weight:	83.7 kDa Including tag.	
UniProt:	P05107	
Pathways:	NF-kappaB Signaling, Activation of Innate immune Response, Toll-Like Receptors Cascades, Activated T Cell Proliferation	
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 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