antibodies

Datasheet for ABIN3135322 IL17RA Protein (AA 32-864) (rho-1D4 tag)





Overview

Quantity:	1 mg
Target:	IL17RA
Protein Characteristics:	AA 32-864
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL17RA protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:	SPRLLDFPAP VCAQEGLSCR VKNSTCLDDS WIHPKNLTPS SPKNIYINLS VSSTQHGELV
	PVLHVEWTLQ TDASILYLEG AELSVLQLNT NERLCVKFQF LSMLQHHRKR WRFSFSHFVV
	DPGQEYEVTV HHLPKPIPDG DPNHKSKIIF VPDCEDSKMK MTTSCVSSGS LWDPNITVET
	LDTQHLRVDF TLWNESTPYQ VLLESFSDSE NHSCFDVVKQ IFAPRQEEFH QRANVTFTLS
	KFHWCCHHHV QVQPFFSSCL NDCLRHAVTV PCPVISNTTV PKPVADYIPL WVYGLITLIA
	ILLVGSVIVL IICMTWRLSG ADQEKHGDDS KINGILPVAD LTPPPLRPRK VWIVYSADHP
	LYVEVVLKFA QFLITACGTE VALDLLEEQV ISEVGVMTWV SRQKQEMVES NSKIIILCSR
	GTQAKWKAIL GWAEPAVQLR CDHWKPAGDL FTAAMNMILP DFKRPACFGT YVVCYFSGIC
	SERDVPDLFN ITSRYPLMDR FEEVYFRIQD LEMFEPGRMH HVRELTGDNY LQSPSGRQLK
	EAVLRFQEWQ TQCPDWFERE NLCLADGQDL PSLDEEVFED PLLPPGGGIV KQQPLVRELP
	SDGCLVVDVC VSEEESRMAK LDPQLWPQRE LVAHTLQSMV LPAEQVPAAH VVEPLHLPDG
	SGAAAQLPMT EDSEACPLLG VQRNSILCLP VDSDDLPLCS TPMMSPDHLQ GDAREQLESL

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	MLSVLQQSLS GQPLESWPRP EVVLEGCTPS EEEQRQSVQS DQGYISRSSP QPPEWLTEEE
	ELELGEPVES LSPEELRSLR KLQRQLFFWE LEKNPGWNSL EPRRPTPEEQ NPS
	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 II17ra 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
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expass's protogram tool to determine the absorption coefficient of each protein
	the Expasy's protparam toor to determine the absorption coemclent 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. 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.

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Product Details	
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade
Target Details	
Target:	IL17RA
Alternative Name:	II17ra (IL17RA Products)
Background:	 Receptor for IL17A (PubMed:17911633, PubMed:20554964, PubMed:8777726). Receptor for IL17F (PubMed:17911633, PubMed:20554964). Binds to IL17A with higher affinity than to IL17F (PubMed:17911633). Binds IL17A and IL17F homodimers as part of a heterodimeric complex with IL17RC (By similarity). Also binds heterodimers formed by IL17A and IL17F as part of a heterodimeric complex with IL17RC (By similarity). Receptor for IL17C as part of a heterodimeric complex with IL17RE (PubMed:21993848, PubMed:21993849, PubMed:21982598). Activation of IL17RA leads to induction of expression of inflammatory chemokines and cytokines such as CXCL1, CXCL8/IL8 and IL6 (By similarity). {EC0:0000250 UniProtKB:Q96F46, EC0:0000269 PubMed:21982598, EC0:0000269 PubMed:21993848, EC0:0000269 PubMed:21993849, EC0:0000269 PubMed:21993848, EC0:0000269 PubMed:21993849,
Molecular Weight:	95.6 kDa Including tag.
UniProt:	Q60943
Pathways: Application Details	SARS-CoV-2 Protein Interactome
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)

Images



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