Datasheet for ABIN3135448 IL1RAP Protein (AA 21-570) (rho-1D4 tag)

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Overview

Quantity:	1 mg
Target:	IL1RAP
Protein Characteristics:	AA 21-570
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL1RAP protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

## Product Details

Sequence:	SERCDDWGLD TMRQIQVFED EPARIKCPLF EHFLKYNYST AHSSGLTLIW YWTRQDRDLE
	EPINFRLPEN RISKEKDVLW FRPTLLNDTG NYTCMLRNTT YCSKVAFPLE VVQKDSCFNS
	AMRFPVHKMY IEHGIHKITC PNVDGYFPSS VKPSVTWYKG CTEIVDFHNV LPEGMNLSFF
	IPLVSNNGNY TCVVTYPENG RLFHLTRTVT VKVVGSPKDA LPPQIYSPND RVVYEKEPGE
	ELVIPCKVYF SFIMDSHNEV WWTIDGKKPD DVTVDITINE SVSYSSTEDE TRTQILSIKK
	VTPEDLRRNY VCHARNTKGE AEQAAKVKQK VIPPRYTVEL ACGFGATVFL VVVLIVVYHV
	YWLEMVLFYR AHFGTDETIL DGKEYDIYVS YARNVEEEEF VLLTLRGVLE NEFGYKLCIF
	DRDSLPGGIV TDETLSFIQK SRRLLVVLSP NYVLQGTQAL LELKAGLENM ASRGNINVIL
	VQYKAVKDMK VKELKRAKTV LTVIKWKGEK SKYPQGRFWK QLQVAMPVKK SPRWSSNDKQ
	GLSYSSLKNV
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.

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Product Details	
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Mouse II1rap Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	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.
	<ol> <li>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.</li> </ol>
	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
Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade

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Target Details	
Target:	IL1RAP
Alternative Name:	II1rap (IL1RAP Products)
Background:	Coreceptor for IL1RL2 in the IL-36 signaling system. Coreceptor with IL1R1 in the IL-1 signaling
	system. Associates with IL1R1 bound to IL1B to form the high affinity interleukin-1 receptor
	complex which mediates interleukin-1-dependent activation of NF-kappa-B and other pathways.
	Signaling involves the recruitment of adapter molecules such as TOLLIP, MYD88, and IRAK1 or
	IRAK2 via the respective TIR domains of the receptor/coreceptor subunits. Recruits TOLLIP to
	the signaling complex. Does not bind to interleukin-1 alone, binding of IL1RN to IL1R1, prevents
	its association with IL1R1 to form a signaling complex. The cellular response is modulated
	through a non-signaling association with the membrane IL1R2 decoy receptor. Secreted forms
	(isoforms 2 and 3) associate with secreted ligand-bound IL1R2 and increase the affinity of
	secreted IL1R2 for IL1B, this complex formation may be the dominant mechanism for
	neutralization of IL1B by secreted/soluble receptors. Coreceptor for IL1RL1 in the IL-33
	signaling system. {ECO:0000250 UniProtKB:Q9NPH3, ECO:0000269 PubMed:11880380,
	ECO:0000269 PubMed:15986350, ECO:0000269 PubMed:17675517,
	ECO:0000269 PubMed:18003919, ECO:0000269 PubMed:18450470,
	ECO:0000303 PubMed:21965679}., Isoform 2: Associates with secreted ligand-bound IL1R2
	and increases the affinity of secreted IL1R2 for IL1B, this complex formation may be the
	dominant mechanism for neutralization of IL1B by secreted/soluble receptors. Enhances the
	ability of secreted IL1R1 to inhibit IL-33 signaling. {ECO:0000269 PubMed:15986350,
	ECO:0000269 PubMed:18450470}., Isoform 3: Required for Src phosphorylation by IL1B.
	Required for IL1B-potentiated NMDA-induced calcium influx in neurons acting in cooperation
	with IL1R1 isoform 2 to mediate Akt kinase activation. {ECO:0000269 PubMed:22159118,
	EC0:0000269 PubMed:22778412}.
Molecular Weight:	64.6 kDa Including tag.
UniProt:	Q61730
Pathways:	NF-kappaB Signaling, Growth Factor Binding
Application Details	
	In addition to the applications listed shows we available the system to work for functional studies
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

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Application Details	
	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
Format: Buffer:	Liquid 100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Buffer: Handling Advice:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer. Avoid repeated freeze-thaw cycles.