antibodies

Datasheet for ABIN3116749 LILRB1 Protein (AA 24-650) (rho-1D4 tag)





Overview

Quantity:	1 mg
Target:	LILRB1
Protein Characteristics:	AA 24-650
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LILRB1 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	REATEPPPSQ EGPSPAVPSI YATLAIH
	EVKHSRPRRE MASPPSPLSG EFLDTKDRQA EEDRQMDTEA AASEAPQDVT YAQLHSLTLR
	PAGAVGPEPT DRGLQWRSSP AADAQEENLY AAVKHTQPED GVEMDTRSPH DEDPQAVTYA
	LTPTGSDPQS GLGRHLGVVI GILVAVILLL LLLLLLFLIL RHRRQGKHWT STQRKADFQH
	MGPVTSAHAG TYRCYGSQSS KPYLLTHPSD PLELVVSGPS GGPSSPTTGP TSTSGPEDQP
	DRVSLSVQPG PTVASGENVT LLCQSQGWMQ TFLLTKEGAA DDPWRLRSTY QSQKYQAEFP
	DFLQLAGAQP QAGLSQANFT LGPVSRSYGG QYRCYGAHNL SSEWSAPSDP LDILIAGQFY
	SPYEWSLPSD LLELLVLGVS KKPSLSVQPG PIVAPEETLT LQCGSDAGYN RFVLYKDGER
	QCDSQVAFDG FSLCKEGEDE HPQCLNSQPH ARGSSRAIFS VGPVSPSRRW WYRCYAYDSN
	PIPSITWEHA GRYRCYYGSD TAGRSESSDP LELVVTGAYI KPTLSAQPSP VVNSGGNVIL
Sequence:	GHLPKPTLWA EPGSVITQGS PVTLRCQGGQ ETQEYRLYRE KKTALWITRI PQELVKKGQF

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Product Details

Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Human LILRB1 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.
	2. 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
Endotoxin Level:	Protein is endotoxin-free.

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Product Details

Grade:

Crystallography grade

Target Details

Target:	LILRB1
Alternative Name:	LILRB1 (LILRB1 Products)
Background:	Receptor for class I MHC antigens. Recognizes a broad spectrum of HLA-A, HLA-B, HLA-C and
	HLA-G alleles. Receptor for H301/UL18, a human cytomegalovirus class I MHC homolog.
	Ligand binding results in inhibitory signals and down-regulation of the immune response.
	Engagement of LILRB1 present on natural killer cells or T-cells by class I MHC molecules
	protects the target cells from lysis. Interaction with HLA-B or HLA-E leads to inhibition of the
	signal triggered by FCER1A and inhibits serotonin release. Inhibits FCGR1A-mediated
	phosphorylation of cellular proteins and mobilization of intracellular calcium ions.
	{ECO:0000269 PubMed:11907092, ECO:0000269 PubMed:9285411,
	EC0:000269 PubMed:9842885}.
Molecular Weight:	69.6 kDa Including tag.
UniProt:	Q8NHL6
Pathways:	Cellular Response to Molecule of Bacterial Origin, Regulation of Leukocyte Mediated Immunity,
	Positive Regulation of Immune Effector Process, Production of Molecular Mediator of Immune
	Response
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
	increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	
Restrictions: Handling	receive your protein of interest.

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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

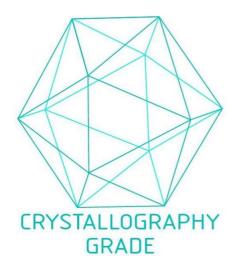


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process