antibodies

## Datasheet for ABIN3134926 CD84 Protein (CD84) (AA 22-329) (rho-1D4 tag)



1 Image



Quantity:	1 mg
Target:	CD84
Protein Characteristics:	AA 22-329
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD84 protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

## Product Details

Sequence:	KDADPMVMNG ILGESVTFLL NIQEPKKIDN IAWTSQSSVA FIKPGVNKAE VTITQGTYKG
	RIEIIDQKYD LVIRDLRMED AGTYKADINE ENEETITKIY YLHIYRRLKT PKITQSLISS LNNTCNITLT
	CSVEKEEKDV TYSWSPFGEK SNVLQIVHSP MDQKLTYTCT AQNPVSNSSD SVTVQQPCTD
	TPSFHPRHAV LPGGLAVLFL LILIPMLAFL FRLYKRRRDR IVLEADDVSK KTVYAVVSRN
	AQPTESRIYD EIPQSKMLSC KEDPVTTIYS SVQLSEKMKE TNMKDRSLPK ALGNEIVV
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	<ul> <li>special request, please contact us.</li> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> </ul>
Characteristics:	
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Mouse Cd84 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to</li> </ul>

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	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.
	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
T 10 1 1	
Target Details	
Target:	CD84
Alternative Name:	Cd84 (CD84 Products)

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Target Details	
Background:	Self-ligand receptor of the signaling lymphocytic activation molecule (SLAM) family. SLAM
	receptors triggered by homo- or heterotypic cell-cell interactions are modulating the activation
	and differentiation of a wide variety of immune cells and thus are involved in the regulation and
	interconnection of both innate and adaptive immune response. Activities are controlled by
	presence or absence of small cytoplasmic adapter proteins, SH2D1A/SAP and/or
	SH2D1B/EAT-2 (PubMed:20962259). Can mediate natural killer (NK) cell cytotoxicity dependent
	on SH2D1A and SH2D1B (PubMed:20962259). Increases proliferative responses of activated T-
	cells and SH2D1A/SAP does not seen be required for this process. Homophilic interactions
	enhance interferon gamma/IFNG secretion in lymphocytes and induce platelet stimulation via a
	SH2D1A/SAP-dependent pathway. May serve as a marker for hematopoietic progenitor cells
	(By similarity). Required for a prolonged T-cell:B-cell contact, optimal T follicular helper function,
	and germinal center formation (PubMed:20153220). In germinal centers involved in maintaining
	B cell tolerance and in preventing autoimmunity (PubMed:25801429). In mast cells negatively
	regulates high affinity immunoglobulin epsilon receptor signaling, independent of SH2D1A and
	SH2D1B but implicating FES and PTPN6/SHP-1 (By similarity). In macrophages enhances LPS-
	induced MAPK phosphorylation and NF-kappaB activation and modulates LPS-induced cytokine
	secretion, involving ITSM 2 (PubMed:20628063). {ECO:0000250 UniProtKB:Q9UIB8,
	ECO:0000269 PubMed:16037392, ECO:0000269 PubMed:20153220,
	EC0:0000269 PubMed:20628063, EC0:0000269 PubMed:20962259,
	ECO:0000269 PubMed:25801429, ECO:0000305}.
Molecular Weight:	36.0 kDa Including tag.
UniProt:	Q18PI6
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:	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