# antibodies -online.com





# CD84 Protein (CD84) (AA 22-345) (rho-1D4 tag)



## **Image**



Go to Product page

( )	ve	K\ /		A .
	$\cup$	1 V/	Щ.	V۷

Quantity:	1 mg
Target:	CD84
Protein Characteristics:	AA 22-345
Origin:	Human
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:

KDSEIFTVNG ILGESVTFPV NIQEPRQVKI IAWTSKTSVA YVTPGDSETA PVVTVTHRNY
YERIHALGPN YNLVISDLRM EDAGDYKADI NTQADPYTTT KRYNLQIYRR LGKPKITQSL
MASVNSTCNV TLTCSVEKEE KNVTYNWSPL GEEGNVLQIF QTPEDQELTY TCTAQNPVSN
NSDSISARQL CADIAMGFRT HHTGLLSVLA MFFLLVLILS SVFLFRLFKR RQGRIFPEGS
CLNTFTKNPY AASKKTIYTY IMASRNTQPA ESRIYDEILQ SKVLPSKEEP VNTVYSEVQF
ADKMGKASTQ DSKPPGTSSY EIVI

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 CD84 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.
- 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

Protein is endotoxin-free.

Grade: Crystallography grade

## **Target Details**

Endotoxin Level:

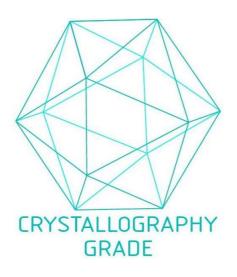
Target: CD84

Alternative Name:	CD84 (CD84 Products)		
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. Can mediate natural killer (NK) cell cytotoxicity dependent on SH2D1A and		
	SH2D1B (By similarity). Increases proliferative responses of activated T-cells and SH2D1A/SAP		
	does not seem be required for this process. Homophilic interactions enhance interferon		
	gamma/IFNG secretion in lymphocytes and induce platelet stimulation via a SH2D1A-		
	dependent pathway. May serve as a marker for hematopoietic progenitor cells		
	(PubMed:11564780, PubMed:12115647. PubMed:12928397, PubMed:12962726,		
	PubMed:16037392) Required for a prolonged T-cell:B-cell contact, optimal T follicular helper		
	function, and germinal center formation. In germinal centers involved in maintaining B-cell		
	tolerance and in preventing autoimmunity (By similarity). In mast cells negatively regulates high		
	affinity immunoglobulin epsilon receptor signaling, independent of SH2D1A and SH2D1B but		
	implicating FES and PTPN6/SHP-1 (PubMed:22068234). In macrophages enhances LPS-		
	induced MAPK phosphorylation and NF-kappaB activation and modulates LPS-induced cytokine		
	secretion, involving ITSM 2 (By similarity). {ECO:0000250 UniProtKB:Q18PI6,		
	ECO:0000269 PubMed:11564780, ECO:0000269 PubMed:12115647,		
	ECO:0000269 PubMed:12928397, ECO:0000269 PubMed:12962726,		
	ECO:0000269 PubMed:16037392, ECO:0000269 PubMed:22068234, ECO:0000305}.		
Molecular Weight:	37.5 kDa Including tag.		
UniProt:	Q9UIB8		
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
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