

## Datasheet for ABIN3133045 CD44 Protein (CD44) (AA 23-685) (His tag)



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### 1 Image

#### Overview

Quantity:	1 mg
Target:	CD44
Protein Characteristics:	AA 23-685
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD44 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys)

#### Product Details

Sequence:	<p>QIDLNVTCRY AGVFHVEKNG RYSISRTEAA DLCQAFNSTL PTMDQMKLAL SKGFETCRYG</p> <p>FIEGNVVIPR IHPNAICAAH HTGVYILVTS NTSHYDITYCF NASAPPEEDC TSVTDLPNSF</p> <p>DGPVTITIVN RDGTRYSKKG EYRTHQEDID ASNIIDDDVS SGSTIEKSTP EGYILHTYLP</p> <p>TEQPTGDQDD SFFIRSTLAT IASTVHSHKSH AAAQKQNNWI WSWFGNSQST TQTQEPTTSA</p> <p>TTALMTTPET PPKRQEAQNW FSWLFQPSSE KSHLHTTTKM PGTESNTNPT GWEPNEENED</p> <p>ETDTYPSFSG SGIDDDDEFI SSTIATTPTV SARTEDNQDW TQWKPNSNP EVLLQTTTRM</p> <p>ADIDRISTSA HGENWTPEPQ PPFNNHEYQD EEETPHATST TPNSTAEAAA TQQETWFQNG</p> <p>WQGNPPTPS EDSHVTEGTT ASAHNNHPSQ RITTQSQEDV SWTDFFDPIS HPMGQGHQTE</p> <p>SKDTSSSHST TLQPTAAPNT HVEDLNRTG PLSVTTTPQSH SQNFSTLHGE PEEDENYPTT</p> <p>SILPSSTKSS AKDARRGGSL PTDTTTSVEG YTFQYPTME NGTLFPVTPA KTEVFGETEV</p> <p>TLATDSNVNV DGSLPGDRDS SKDSRGSSRT VTHGSELAGH SSANQDSGVT TTSGPMRRPQ IPE</p>
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**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 Cd44 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 receipt 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:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. 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

## Target Details

Target:	CD44
Alternative Name:	Cd44 ( <a href="#">CD44 Products</a> )
Background:	<p>Receptor for hyaluronic acid (HA). Mediates cell-cell and cell-matrix interactions through its affinity for HA, and possibly also through its affinity for other ligands such as osteopontin, collagens, and matrix metalloproteinases (MMPs). Adhesion with HA plays an important role in cell migration, tumor growth and progression. In cancer cells, may play an important role in invadopodia formation. Also involved in lymphocyte activation, recirculation and homing, and in hematopoiesis (By similarity). Receptor for LGALS9, the interaction enhances binding of SMAD3 to the FOXP3 promoter, leading to up-regulation of FOXP3 expression and increased induced regulatory T (iTreg) cell stability and suppressive function (PubMed:25065622).</p> <p>{ECO:0000250 UniProtKB:P16070, ECO:0000269 PubMed:25065622}.</p>
Molecular Weight:	73.8 kDa Including tag.
UniProt:	<a href="#">P15379</a>
Pathways:	<a href="#">Glycosaminoglycan Metabolic Process</a> , <a href="#">Autophagy</a> , <a href="#">Negative Regulation of intrinsic apoptotic Signaling</a>

## 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 guarantee 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

## 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

## Handling

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Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)

## Images

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**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process