

## Product datasheet

# Recombinant Human CD44 protein (Fc Chimera) ab185865

### Description

<b>Product name</b>	Recombinant Human CD44 protein (Fc Chimera)	
<b>Purity</b>	> 95 % SDS-PAGE. Purity is greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.	
<b>Endotoxin level</b>	< 1.000 Eu/μg	
<b>Expression system</b>	Mammalian	
<b>Accession</b>	<b><u>P16070</u></b>	
<b>Protein length</b>	Protein fragment	
<b>Animal free</b>	No	
<b>Nature</b>	Recombinant	
<b>Species</b>	Human	
<b>Sequence</b>	QIDLNITCRFAGVVFHVEKNGRYSISRTEAADLCKAFNSTLP TMAQMEKAL SIGFETCRYGFIEGHVVIPRIHPNSICAANNTGVYILTSNTSQY DTYCFN ASAPPEEDCTSVTDLPNAFDGPITITIVNRDGYVQKGEY RTNPEDIYP SNPTDDDVS SSGSSSERSSSTSGGYIFYTFSTVHPIPEDDSP WITDSTRIP VDDIEGRMDEPKSCDKTHTCPPCPAPPELLGGPSVFLFPP KPKDTLMISRT PEVTCVWVDVSHEDPEVKFNWYVDGVEVHNAKTKPREE QYNSTYRVVSVL TVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREP QVYTLPPSRE EMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTP PVLDS DGSFFL YSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSP GK	
<b>Predicted molecular weight</b>	49 kDa including tags	
<b>Amino acids</b>	21 to 220	
<b>Tags</b>	Fc tag C-Terminus	

## Specifications

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Our **Abpromise guarantee** covers the use of **ab185865** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	SDS-PAGE HPLC
<b>Form</b>	Lyophilized

## Preparation and Storage

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<b>Stability and Storage</b>	Shipped at 4°C. The lyophilized protein is stable for a few weeks at room temperature. Store at -80°C. Avoid freeze / thaw cycle.  pH: 7.40 Constituent: 100% PBS
<b>Reconstitution</b>	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in 3X PBS. Aliquot the reconstituted solution and store at < -20°C.

## General Info

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<b>Function</b>	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. Also involved in lymphocyte activation, recirculation and homing, and in hematopoiesis. Altered expression or dysfunction causes numerous pathogenic phenotypes. Great protein heterogeneity due to numerous alternative splicing and post-translational modification events.
<b>Tissue specificity</b>	Isoform 10 (epithelial isoform) is expressed by cells of epithelium and highly expressed by carcinomas. Expression is repressed in neuroblastoma cells.
<b>Sequence similarities</b>	Contains 1 Link domain.
<b>Domain</b>	The lectin-like LINK domain is responsible for hyaluronan binding.
<b>Post-translational modifications</b>	Proteolytically cleaved in the extracellular matrix by specific proteinases (possibly MMPs) in several cell lines and tumors.  N-glycosylated. O-glycosylated; contains more-or-less-sulfated chondroitin sulfate glycans, whose number may affect the accessibility of specific proteinases to their cleavage site(s). Phosphorylated; activation of PKC results in the dephosphorylation of Ser-706 (constitutive phosphorylation site), and the phosphorylation of Ser-672.
<b>Cellular localization</b>	Membrane.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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