

Product datasheet

Recombinant Human CD44 protein (Fc Chimera)  
ab221334

2 Images

Description

<b>Product name</b>	Recombinant Human CD44 protein (Fc Chimera)	
<b>Purity</b>	> 95 % SDS-PAGE. >90% by HPLC	
<b>Endotoxin level</b>	< 1.000 Eu/µg	
<b>Expression system</b>	HEK 293 cells	
<b>Accession</b>	<a href="#">P16070</a>	
<b>Protein length</b>	Protein fragment	
<b>Animal free</b>	No	
<b>Nature</b>	Recombinant	
<b>Species</b>	Human	
<b>Sequence</b>	<p>QIDLNITCRF AGVFHVEKNG RYSISRTEAA  DLCKAFNSTL PTMAQMEKAL SIGFETCRYG  FIEGHVVIPR IHPNSICAAN NTGVYILTSN TSQYDTYCFN  ASAPPEEDCT SVTDLPNAFD GPITITVNR  DGTRYVQKGE YRTNPEDMP SNPTDDDDVSS  GSSSERSSTS GGYIFYTFST VHPIPDEDSP  WITDSTDRIPP KSCDKHTTCP PCPAPELLGG  PSVFLFPPKP KDTLMISRTP EVTCVWVDVS  HEDPEVKFNW YVDGVEVHNA KTKPREEQYN  STYRVVSVLT VLHQDWLNGK EYKCKVSNKA  LPAPIEKTIS KAKGQPREPQ VYTLPPSRDE  LTKNQVSLTC LVKGFYPSDIAVEWESNGQP  ENNYKTTTPV LDSDGSFFLY SKLTVDKSRW  QQGNVFSCSV MHEALHNHYT QKSLSLSPGK</p>	
<b>Predicted molecular weight</b>	49 kDa including tags	
<b>Amino acids</b>	21 to 220	
<b>Additional sequence information</b>	ab221334 has a Human IgG1 Fc tag (Uniprot# P01857, aa 110-330) at the C-terminus.	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab221334** 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>	HPLC SDS-PAGE
<b>Form</b>	Lyophilised
<b>Additional notes</b>	No activity loss is observed after storage at: 4-8 °C for 12 months in lyophilized state; -70 °C for 3 months under sterile conditions after reconstitution

## Preparation and Storage

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<b>Stability and Storage</b>	Shipped at 4°C. Store at -80°C. Avoid freeze / thaw cycle. pH: 7.50 Constituents: 0.61% Tris, 0.75% Glycine, 5% Trehalose
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Lyophilized from 0.22 µm filtered solution

<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized product with sterile deionized water to a final concentration of 1 mg/ml. Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing. Carrier protein (0.1% HSA or BSA) is strongly recommended for further dilution and long term storage.
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## 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.
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<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.
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<b>Sequence similarities</b>	Contains 1 Link domain.
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<b>Domain</b>	The lectin-like LINK domain is responsible for hyaluronan binding.
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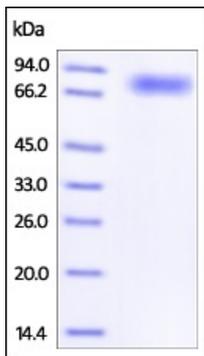
<b>Post-translational modifications</b>	Proteolytically cleaved in the extracellular matrix by specific proteinases (possibly MMPs) in several cell lines and tumors. N-glycosylated. O-glycosylated; contains more-or-less-sulfated chondroitin sulfate glycans, whose number may affect the accessibility of 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.
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<b>Cellular localization</b>	Membrane.
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## Images

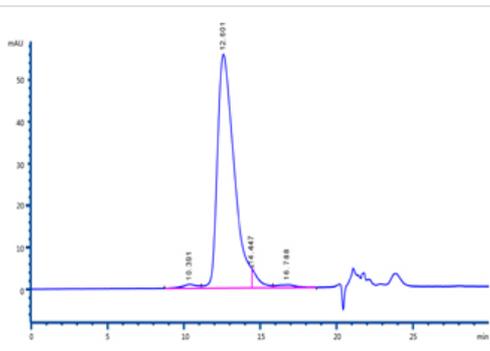
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SDS-PAGE - Recombinant Human CD44 protein (Fc Chimera) (ab221334)

SDS-PAGE analysis of ab221334.

The gel was stained overnight with Coomassie Blue. ab221334 has a calculated MW of 49 kDa. Due to glycosylation, the protein migrates at 76 kDa on a SDS-PAGE gel under reducing conditions.



HPLC - Recombinant Human CD44 protein (Fc Chimera) (ab221334)

SEC-HPLC analysis of ab221334.

The purity of ab221334 was determined to be greater than 90%.

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

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