

### Recombinant human CD44 protein (Active) ab221334

[4 Images](#)

#### Description

<b>Product name</b>	Recombinant human CD44 protein (Active)	
<b>Biological activity</b>	<p>Measured by its binding ability in a functional ELISA. Immobilized ab221334 at 5 µg/mL (100 µL/well) can bind Hyaluronan biotin sodium salt with a linear range of 10-156 ng/mL.</p> <p>Measured by its binding ability in a functional ELISA. Immobilized Hyaluronic Acid at 100 µg/mL (100 µL/well) can bind ab221334 with a linear range of 0.156-2.5 µg/mL.</p>	
<b>Purity</b>	<p>&gt; 95 % SDS-PAGE.</p> <p>&gt;90% as determined by SEC-HPLC.</p>	
<b>Endotoxin level</b>	< 1.000 Eu/µg	
<b>Expression system</b>	HEK 293 cells	
<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>	<pre> QIDLNITCRF AGVFHVEKNG RYSISRTEAA DLCKAFNSTL PTMAQMEKAL SIGFETCRYG FIEGHVVIPR IHPNSICAAN NTGVYILTSN TSQYDTYCFN ASAPPEEDCT SVTDLPNAFD GPITITVNR DGTRYVQKGE YRTNPEDIYP SNPTDDDVSS GSSSERSSTS GGYIFYTFST VHPIPEDESP WITDSTDRIPP KSCDKTHTCP PCPAPELLGG PSVFLFPPKP KDTLMISRTP EVTVCVVVDVS HEDPEVKFNW YVDGVEVHNA KTKPREEQYN STYRVVSVLT VLHQDWLNGK EYKCKVSNKA LPAPIEKTIS KAKGQPREPQ VYTLPPSRDE LTKNQVSLTC LVKGFYPSDI AVEWESNGQP ENNYKTPPV LDSDGSFFLY SKLTVDKSRW QQGNVFSCSV MHEALHNHYT QKSLSLSPGK           </pre>	
<b>Predicted molecular weight</b>	49 kDa including tags	
<b>Amino acids</b>	21 to 220	
<b>Tags</b>	Fc tag C-Terminus	
<b>Additional sequence information</b>	ab221334 has a Human IgG1 Fc tag (Uniprot# P01857, aa 110-330) at the C-terminus.	

## Specifications

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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>	ELISA HPLC SDS-PAGE
<b>Form</b>	Lyophilized
<b>Additional notes</b>	No activity loss is observed after storage at: -20 to -70 °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: 7.4 Constituents: 0.61% Tris, Glycine, Trehalose, L-Arginine, Sodium chloride  Lyophilized from 0.22 µm filtered solution This product is an active protein and may elicit a biological response in vivo, handle with caution.
<b>Reconstitution</b>	Reconstitute with sterile deionized water to a concentration of 200 µg/ml.

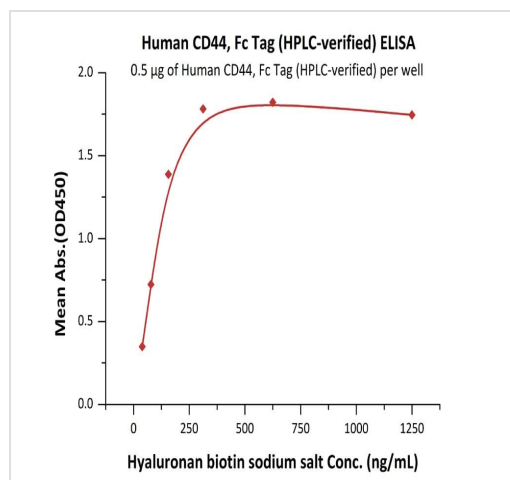
## General Info

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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.

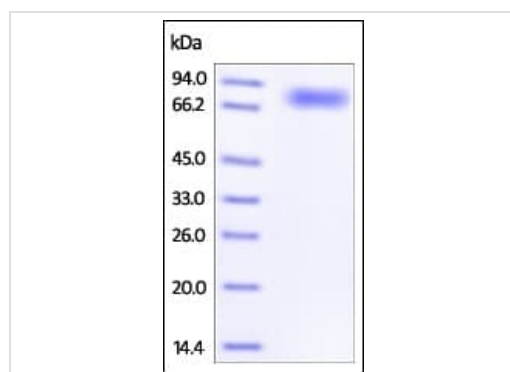
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## Images



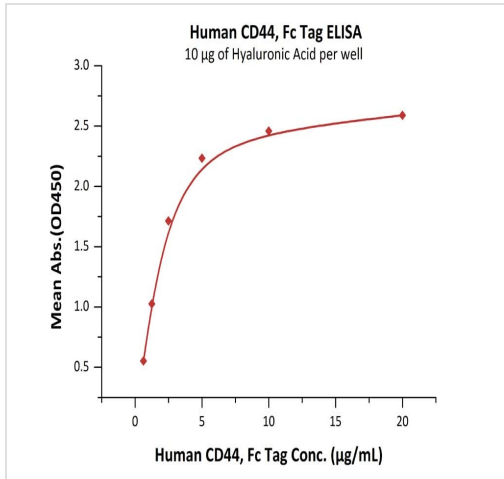
ELISA - Recombinant Human CD44 protein (Fc Chimera) (ab221334)

Immobilized ab221334 at 5 µg/mL (100 µL/well) can bind Hyaluronan biotin sodium salt with a linear range of 10-156 ng/mL.



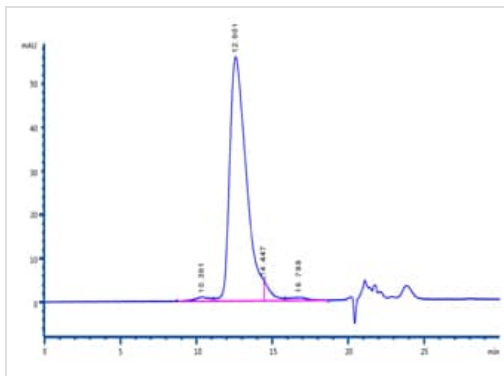
SDS-PAGE - Recombinant Human CD44 protein (Fc Chimera) (ab221334)

SDS-PAGE of reduced ab221334 stained overnight with Coomassie Blue. Due to glycosylation, the protein migrates at 76 kDa on a under reducing conditions.



Immobilized Hyaluronic Acid at 100 µg/mL (100 µL/well) can bind ab221334 with a linear range of 0.156-2.5 µg/mL.

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



SEC-HPLC analysis of ab221334. The purity of ab221334 was determined to be greater than 90%.

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

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

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