# Recombinant Human CD44 Protein

## Catalog No.: RP00973



## Sequence Information

**Species**
Human

**Gene ID**
960

**Swiss Prot**
P16070-1

**Tags**
C-hFc&His

**Synonyms**
CD44, CDW44, CSPG8, ECMR-III, HCELL, HUTCH-I, IN, LHR, MC56, MDU2, MDU3, MIC4, Pgp1, CD44 antigen,CDW44,CSPG8,ECMR-III, HCELL,HUTCH-I,IN,LHR,MC56, MDU2,MDU3,MIC4,Pgp1,CD44

## Product Information

**Source**
HEK293 cells

**Purification**
≥ 95 % as determined by SDS-PAGE.

**Calculated MW**
48.86 kDa

**Observed MW**
70-85 kDa

**Endotoxin**
< 1 EU/μg of the protein by LAL method.

**Formulation**
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

**Reconstitution**
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Background

This protein is a cell-surface glycoprotein involved in cell-cell interactions, cell adhesion and migration. It is a receptor for hyaluronic acid (HA) and can also interact with other ligands, such as osteopontin, collagens, and matrix metalloproteinases (MMPs). This protein participates in a wide variety of cellular functions including lymphocyte activation, recirculation and homing, hematopoiesis, and tumor metastasis. Transcripts for this gene undergo complex alternative splicing that results in many functionally distinct isoforms, however, the full length nature of some of these variants has not been determined. Alternative splicing is the basis for the structural and functional diversity of this protein, and may be related to tumor metastasis.

## Basic Information

**Description**
Recombinant Human CD44 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Gln21-Pro220) of human CD44 (Accession #NP_000601.3) fused with an Fc, 6×His tag at the C-terminus.

**Activity**
Measured by its binding ability in a functional ELISA. Immobilized Hyaluronic Acid at 100 μg/mL (100 μL/well) can bind Human CD44 with a linear range of 20-330 ng/mL.

**Shipping**
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

**Storage**
Store at -20℃

**Operational Notes**
For your safety and health, please wear a lab coat and disposable gloves for handling.

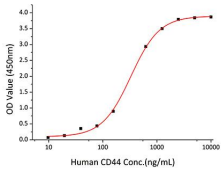
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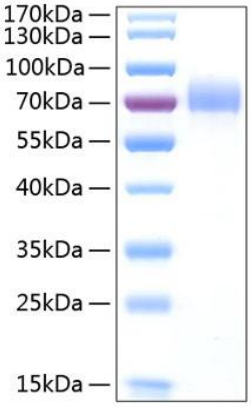


For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

## Validation Data




Immobilized Hyaluronic Acid at 100 μg/mL (100 μL/well) can bind Recombinant Human CD44 with a linear range of 20-330 ng/mL.




Recombinant Human CD44 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.