

Recombinant Human CD44 Protein, hFc-tagged, Alexa Fluor 488 conjugated

Cat. No. CD44-3095HAF488 **Lot. No.** (See product label)

SPECIFICATION

Product Overview Alexa Fluor 488 conjugated recombinant human CD44 (Gln21-Pro220) protein (HPLC-verified) was fused to human IgG1 Fc tag at C-terminus and expressed in human 293 cells (HEK293).

Species Human

Source HEK293

ProteinLength Gln21-Pro220

Description CD44 antigen is a cell-surface glycoprotein involved in cell–cell interactions, cell adhesion and migration. CD44 is expressed in a large number of mammalian cell types. CD44 is a receptor for hyaluronic acid and can also interact with other ligands, such as osteopontin, collagens, and matrix metalloproteinases (MMPs). CD44 function is controlled by its posttranslational modifications. One critical modification involves discrete sialofucosylations rendering the selectin-binding glycoform of CD44 called HCELL (for Hematopoietic Cell E-selectin/L-selectin Ligand). CD44 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.

Form Lyophilized

Molecular Mass This protein has a calculated MW of 48.7 kDa. The reducing (R) protein migrates as

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	76 kDa in SDS-PAGE due to glycosylation.
N-terminal Sequence Analysis	Gln 21
Endotoxin	< 1.0 EU/ µg by the LAL method.
Purity	> 95 % as determined by SDS-PAGE
Characteristic	Disulfide-linked homodimer Labeled with Alexa Fluor 488 via amines Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.
Conjugation	Alexa Fluor 488

GENE INFORMATION

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Gene Name	CD44
Official Symbol	CD44
Synonyms	CD44; CD44 molecule (Indian blood group); CD44 antigen (homing function and Indian blood group system) , MDU2, MDU3, MIC4; CD44 antigen; CD44R; chondroitin sulfate proteoglycan 8; CSPG8; HCELL; hematopoietic cell E and L selectin ligand; IN; MC56; Pgp1; epican; Hermes antigen; hyaluronate receptor; phagocytic glycoprotein 1; heparan sulfate proteoglycan; cell surface glycoprotein CD44; extracellular matrix receptor III; GP90 lymphocyte homing/adhesion receptor; hematopoietic cell E- and L-selectin ligand; homing function and Indian blood group system; LHR; MDU2; MDU3; MIC4; CDW44; HUTCH-I; ECMR-III; MGC10468
Gene ID	960
mRNA Refseq	NM_000610
Protein Refseq	NP_000601
MIM	107269
UniProt ID	P16070

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