

Recombinant Human CD44 Protein, C-His-tagged

Cat. No. CD44-198H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD44 Protein with C-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	21-649 aa
Description	CD44 is a type I transmembrane glycoprotein that mediates cell-cell and cell-matrix interaction through its affinity for hyaluronic acid (HA) and possibly through other parts of the extracellular matrix (ECM). CD44 is highly polymorphic, possesses a number of alternative splice variants and undergoes extensive post-translational modifications (1,2). Increased surface levels of CD44 are characteristic of T cell activation, and expression of the protein is upregulated during the inflammatory response. Research studies have shown that interactions between CD44 and HER2 are linked to an increase in ovarian carcinoma cell growth. CD44 interacts with ezrin, radixin and moesin (ERM), linking the actin cytoskeleton to the plasma membrane and the ECM. CD44 is constitutively phosphorylated at Ser325 in resting cells. Activation of PKC results in phosphorylation of Ser291, dephosphorylation of Ser325, disassociation of ezrin from CD44, and directional motility.
Molecular Mass	~69 kDa
AA Sequence	QIDLNITCRFAGVFHVEKNGRYSISRTEAADLCKAFNSTLPTMAQMEKALSIGFETCR YGFIEGHVVIPRIHPNSICAAANTGVYILTNTSQYDTYCFNASAPPEEDCTSVTDLPN

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AFDGPITITIVNRDGTTRYVQKGEYRTNPEDIYPSNPTDDDVSSGSSSERSSTSGGYIF
YTFSTVHPIPEDSPWITDSTDRIPTTLMSTSATATETATKRQETWDWFSWLFLPS
ESKNHLHTTTQMAGTSSNTISAGWEPNEENEDERDRHLSFSGSGIDDEDFISSTIS
TTPRAFDHTKQNQDWTQWNPSPSHSNPEVLLQTTTRMTDVDRNGTTAYEGNWNPEA
HPPLIHHEHHEEEETPHSTSTIQATPSSTTEETATQKEQWFGNRWHEGYRQTPKED
SHSTTGTAASAHTSHPMQGRTPSPEDSSWTDFFNPISHPMGRGHQAGRRMDM
DSSHSITLQPTANPNTGLVEDLDRTGPLSMTTQQSNSQSFSSTHEGLEEDKDHPTT
STLTSSNRNDVTGGRRDPNHSEGSTTLLEGYTSHPHTKESRTFIPVTSKGTSGFGV
TAVTVGDSNSNVNRSLSGDQDTFHPSGGSHTTHGSESDGHSHGSQEGGANTTSG
PIRTPQIPE

Purity

Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).

Notes

For research use only, not for use in diagnostic procedure.

Storage

Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.

Concentration

≥0.5 mg/mL

Storage Buffer

PBS, 4M Urea, pH7.4

GENE INFORMATION

Gene Name

CD44 CD44 molecule (Indian blood group) [Homo sapiens (human)]

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

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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