

Recombinant Human CD44 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CD44-6062H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CD44 MS Standard C13 and N15-labeled recombinant protein (NP_001001389) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene 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.
Molecular Mass	76.6 kDa
AA Sequence	MDKFWWWHAAWGLCLVPLSLAQIDLNITCRFAGVFHVEKNGRYSISRTEAADLCKAF NSTLPTMAQMEKALSIGFETCRYGFIEGHVVIPRIHPNSICAANNTGVYILTSNTSQYD TYCFNASAPPEEDCTSVTDLPNAFDGPITITIVNRDGTRYVQKGEYRTNPEDIYPSNP

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TDDDVSSGSSSERSTSGGYIFYTFSTVHPIPEDSPWITDSTDRIPATSTSSNTISA
 GWEPNEENEDERDRHLSFSGSGIDDED FISSTISTTPRAFDHTKQNQDWTQWNP
 SHSNPEVLLQTTTRMTDVDRNGTTAYEGNWNPEAHPPLIHHEHHEEEETPHSTSTI
 QATPSSTTEETATQKEQWFGNRWHEGYRQTPREDSHSTTGTAASAHTSHPMQG
 RTTPSPEDSSWTDFFNPISHPMGRGHQAGRRMDMDSSHSTTLQPTANPNTGLVED
 LDRTGPLSMTTQQSNSQSFSSTHEGLEEDKDHPTTSTLTSSNRNDVTGGRRDPNH
 SEGSTTLLEGYTSHYPHTKESRTFIPVTSAKTGSFGVTAVTVGDSNSNVNRSLSGDQ
 DTFHPSGGSHTTHGSESDGSHSGSQEGGANTTSGPIRTPQIPEWLIILASLLALIL
 AVCIAVNSRRRCGQKKLVINSGNGAVEDRKPSGLNGEASKSQEMVHLVNKESSET
 PDQFMTADETRNLQNVDKIGVTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

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 sulfate proteoglycan 8; CSPG8; HCELL; hematopoietic cell E and L selectin ligand;

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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_001001389](#)

Protein Refseq [NP_001001389](#)

MIM [107269](#)

UniProt ID [P16070](#)

SDS-PAGE

