

Recombinant Human CD44 Protein, Fc-tagged

Cat. No. CD44-161H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CD44 protein with Fc tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	742
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.
Form	Lyophilized
Molecular Mass	48.7 kDa
AA Sequence	MDKFWWHAAWGLCLVPLSLAQIDLNITCRFAGVFHVEKNGRYSISRTEAADLCKAF NSTLPTMAQMEKALSIGFETCRYGFIEGHVVIPRIHPNSICAANNTGVYILTSNTSQYD

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

TYCFNASAPPEEDCTSVTDLPNAFDGPITITIVNRDGTRYVQKGEYRTNPEDIYPSNP
TDDDVSSGSSSERSSTSGGYIFYTFSTVHPIPEDDSPWITDSTDRIPTATLMSTSATA
TETATKRQETWDWFSWLFLPSESKNHLHTTTQMAGTSSNTISAGWEPNEENEDER
DRHLSFSGSGIDDDDEFISSTISTTPRAFDHTKQNQDWTQWNPSHSNPEVLLQTTTR
MTDVDRNGTTAYEGNWNPEAHPLIHHEHHEEEETPHSTSTIQATPSSTTEETATQ
KEQWFGNRWHEGYRQTPKEDSHSTTGTAASAHTSHPMQGRTPSPEDSSWTD
FNPISHPMGRGHQAGRRMDMDSSHSITLQPTANPNTGLVEDLDRTGPLSMTTQQS
NSQSFSTSHEGLEEDKDHPPTSTLTSSNRNDVTGGRRDPNHSEGSTTLLEGYTSY
PHTKESRTFIPVTS AKTGSFGVTAVTVGDSNSNVNRSLSGDQDTFHPSGGSHTTHG
SESDGHS HGSQEGGANTTSGPIRTPQIPEWLIILASLLALALILAVCIAVNSRRRCGQK
KKLVINSGNGAVEDRKPSGLNGEASKSQEMVHLVNKESSETPDQFMTADETRNLQ
NVDMKIGV

Purity	> 98%
Applications	WB; ELISA; FACS; FC
Stability	This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.
Storage	At -20 centigrade.
Concentration	1 mg/mL
Storage Buffer	PBS (pH 7.4-7.5). Sterile-filtered colorless solution.
Reconstitution	Reconstitute in sterile distilled H ₂ O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal

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performance.

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; 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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