

Active Recombinant Full Length Human CD44 Protein, C-Flag-tagged

Cat. No. CD44-143HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CD44 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	ELISA binding assay
Molecular Mass	79.2 kDa

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AA Sequence

MDKFWWWHAAWGLCLVPLSLAQIDLNITCRFAGVFHVEKNGRYSISRTEAADLCKAF
 NSTLPTMAQMEKAL SIGFETCRYGFIEGHVVIPRIHPNSICAAANTGVYILTSNTSQY
 DTYCFNASAPPEEDCTSVTDLPNAFD GPITITIVNRDGETRYVQKGEYRTNPEDIYPS
 NPTDDDVSSGSSSERSSTSGGYIFYTFSTVHPIPEDDSP WITDSTDRIPTATLMSTS
 ATATETATKRQETWDWFSWLFLPSESKNHLHTTTQMAGTSSNTISAGWEPNE ENE
 DERDRHLSFSGSGIDDEDIFSSTISTTPRAFDHTKQNQDWTQWNPSHSNPEVLLQ
 TTRMTDVDRN GTTAYEGNWNPEAHPLIHHEHHEEEETPHSTSTIQATPSSTTEE
 TATQKEQWFGNRWHEGYRQTPKEDS HSTTGTAASAHTSHPMQGRTPSPEDSS
 WTDFFNPISHPMGRGHQAGRRMDMDSSHSITLQPTANPNTG LVEDLDRTGPLSMT
 TQQSNSQSFSTSHEGLEEDKDHPSTSTLTSSNRNDVTGGRRDPNHSEGSTTLLEGY
 TSHYPHTKESRTFIPVTSAKTGSFGVTAVTVGDSNSNVNRSLSGDQDTFHPSGGSH
 TTHGSESDGSHSGS QEGGANTTSGPIRTPQIPEWLIILASLLALILAVCIAVNSRRR
 CGQKKKLVINSGNGAVEDRKPSGLN
 GEASKSQEMVHLVNKESSETPDQFMTADETRNLQNVDKIGVTRTRPLEQKLISEE
 DLAANDILDYKDDDDKV

Purity

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

Stability

Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Storage

Store at -80 centigrade.

Concentration

>50 ug/mL as determined by microplate BCA method.

Preparation

Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Protein Families

Adult stem cells, Cancer stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Stem cell relevant signaling - DSL/Notch pathway,

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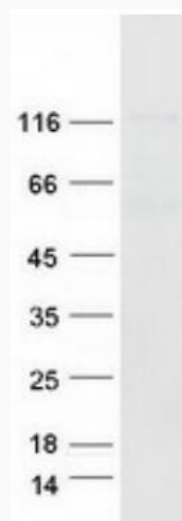
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	Transmembrane
Protein Pathways	ECM-receptor interaction, Hematopoietic cell lineage
Full Length	Full L.
GENE INFORMATION	
Gene Name	CD44 CD44 molecule (Indian blood group) [Homo sapiens (human)]
Official Symbol	CD44
Synonyms	IN; LHR; MC56; MDU2; MDU3; MIC4; Pgp1; CDW44; CSPG8; H-CAM; HCELL; ECM-III; HUTCH-1; HUTCH-I; ECMR-III; Hermes-1
Gene ID	960
mRNA Refseq	NM_000610.4
Protein Refseq	NP_000601.3
MIM	107269
UniProt ID	P16070

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Coomassie blue staining of purified CD44 protein.

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