

Recombinant Human CD44 protein, GST-tagged

Cat. No. CD44-27238TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD44 (1 a.a. - 699 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	1-699 a.a.
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	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	102.63 kDa
AA Sequence	MDKFWWHAAWGLCLVPLSLAQIDLNITCRFAGVFHVEKNGRYSISRTEAADLCKAF

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NSTLPTMAQMEKALSIGFE TCRYGFIEGHVVIPRIHPNSICAANNTGVYILTSNTSQY
 DTYCFNASAPPEEDCTSVTDLPNAFDGPITITIVNR DGTRYVQKGEYRTNPEDIYPS
 NPTDDDVSSGSSSERSSTSGGYIFYTFSTVHPIPEDSPWITDSTDRIPATSTS SNTI
 SAGWEPNEENEDERDRHLSFSGSGIDDED FISSTISTTPRAFDHTKQNQDWTQW
 NPSHSNPEVLLQTTTR MTDVDRNGTTAYEGNWNPEAHPPLIHHEHHEEEETPHST
 STIQATPSSTTEETATQKEQWFGNRWHEGYRQTPRE DSHSTTGTAASAHTSHPM
 QGRTPSPEDSSWTDFFNPISHPMGRGHQAGRRMDMDSSHSTTLQPTANPNTGLV
 E DLDRTGPLSMTTQQSNSQSFSSTHEGLEEDKDHPTTSTLTSSNRNDVTGGRRDP
 NHSEGSTTLLEGYTSHYPHTK ESRTFIPVTSAKTGSFGVTAVTVGDSNSNVNRSLS
 GDQDTFHPSGGSHHTHGSSESDGHSHGSGEGGANTTSGPIR TPQIPEWLIILASLLAL
 ALILAVCIAVNSRRRCGQKKKLVINSNGNGAVEDRKPSGLNGEASKSQEMVHLVNKES
 S ETPDQFMTADETRNLQNVDKIGV

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
Antibody Production; Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name

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

Official Symbol

CD44

Synonyms

IN; LHR; MC56; MDU2; MDU3; MIC4; Pgp1; CDW44; CSPG8; HCELL; HUTCH-I;
 ECMR-III; CD44 antigen; GP90 lymphocyte homing/adhesion receptor; Hermes
 antigen; cell surface glycoprotein CD44; chondroitin sulfate proteoglycan 8; epican;
 extracellular matrix receptor III; hematopoietic cell E- and L-selectin ligand; heparan

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	sulfate proteoglycan; homing function and Indian blood group system; hyaluronate receptor; phagocytic glycoprotein 1; soluble CD44
Gene ID	960
mRNA Refseq	NM_000610
Protein Refseq	NP_000601
MIM	107269
UniProt ID	P16070
Chromosome Location	11p13
Pathway	Cell surface interactions at the vascular wall, organism-specific biosystem; Cytokine Signaling in Immune system, organism-specific biosystem; Degradation of the extracellular matrix, organism-specific biosystem
Function	collagen binding; contributes_to cytokine receptor activity; contributes_to cytokine receptor activity