

## Product datasheet for TP302455M

### CD44 (NM\_001001389) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human CD44 molecule (Indian blood group) (CD44), transcript variant 2, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA	>RC202455 protein sequence
Clone or AA Sequence:	Red=Cloning site Green=Tags(s)

MDKFWWHAAWGLCLVPLSLAQIDLNITCRFAGVFHVEKNGRYSISRTEAADLCKAFNSTLPTMAQMEKAL  
SIGFETCRYGFIEGHVVIPRIHPNSICAANNTGVYILTSNTSQYDYCFNASAPPEEDCTSVTDLPNAFD  
GPITITIVNRDGRYVQKGEYRTNPEDIYPSNPTDDDVS SSSERSSTSGGYIFYTFSTVHPIPEDD SP  
WITDSTDRIPATSTSSNTISAGWEPNEENEDERDRHLSFSGSGIDDED FISSTISTTPRAF DHTKQNQD  
WTQWNPSHSNPEVLLQTTTRMTDVRNGTTAYEGNWNPEAHPLIHHEHHEEEETPHSTSTIQATPSSTT  
EETATQKEQWFGNRWHEGYRQTPRED SHSTTGAAASAHTSHPMQGRTPSPEDSSWTDFFNPISHPMGR  
GHQAGRRMDM DSSHSTTLQPTANPNTGLVEDLDR TGPLSM T TQQSNSQSFSST SHEGLEEDKDHPTTSTLT  
SSNRNDVTGRRDPNHSEGSTTLLEGYTSHPHTKESRTFIPVTS AKTGSFGVTAVTVGDSNSNVNRSLS  
GDQDTFHPSGGSHTTHGSESDGHS HGSQEGGANTTSGPIRTPQIPEWLIILASLLALILAVCIAVNSR  
RRCGQKKKLVINSGNGAVEDRKPSGLNGEASKSQEMVHLVNKESSETPDQFMTAETRNLQNVD MKIGV

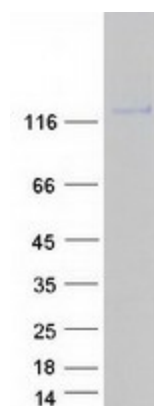
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	74.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_001001389</a>
<b>Locus ID:</b>	960
<b>UniProt ID:</b>	<a href="#">P16070</a>
<b>RefSeq Size:</b>	5619
<b>Cytogenetics:</b>	11p13
<b>RefSeq ORF:</b>	2097
<b>Synonyms:</b>	CDW44; CSPG8; ECMR-III; HCELL; HUTCH-I; IN; LHR; MC56; MDU2; MDU3; MIC4; Pgp1
<b>Summary:</b>	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. [provided by RefSeq, Jul 2008]
<b>Protein Families:</b>	Adult stem cells, Cancer stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Stem cell relevant signaling - DSL/Notch pathway, Transmembrane
<b>Protein Pathways:</b>	ECM-receptor interaction, Hematopoietic cell lineage

**Product images:**

Coomassie blue staining of purified CD44 protein (Cat# [TP302455]). The protein was produced from HEK293T cells transfected with CD44 cDNA clone (Cat# [RC202455]) using MegaTran 2.0 (Cat# [TT210002]).