

## Product datasheet for PH321771

### CD44 (NM\_000610) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	CD44 MS Standard C13 and N15-labeled recombinant protein (NP_000601)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC221771
Predicted MW:	81.54 kDa
Protein Sequence:	>RC221771 representing NM_000610 Red=Cloning site Green=Tags(s)

MDKFWHAAWGLCLVPLSLAQIDLNITCRFAGVFHVEKNGRYSISRTEAADLCKAFNSTLPTMAQMEKAL  
SIGFETCRYGFIGHVVIPRIHPNSICAAANTGVYILTNTSQQYDTCFNASAPPEEDCTSVTDLPNAFD  
GPITITIVNRDGTTRYVQKGEYRTNPEDIYPSNPTDDDVSQSSSERSSTSGGYIFYTFSTVHPIPEDDSP  
WITDSTDRIPATLMSTSATATETATKRQETWDFSWLFLPSESKNHLHTTTQMAGTSSNTISAGWEPNE  
ENEDERDRHLSFSGSIDDEDFISSTISTTPRAFHTKQNDWTQWNPSHSNPEVLLQTTTRMTDVDRN  
GTTAYEGNWNPEAHPPLIHHEHHEEEETPHSTSTIQATPSSTTEETATQKEQWFGNRWHEGYRQTPKEDS  
HSTTGTAASAHTSHPMQGRTTTPSPEDSSWDFFNPI SHPMGRGHQAGRRMDMSSHSITLQPTANPNTG  
LVEDLDRGTPLSMTTQQSNSQSFSTSHGLEEDKDHPPTSTLTSSNRNDVTGRRDPNHSEGSTLLEGY  
TSHYPHTKESRTFIPVTSAKTGSFGVTA VTVGDSNSNVNRSLSGDQDTFHPSGGSHHTHGSESDGHS  
QEGGANTTSGPIRTPQIPEWLIILASLLALALILAVCIAVNSRRRCGQKKLVLINSNGAVEDRKP SGLN  
GEASKSQEMVHLVNKESSETPDQFMTADETRNLQNVDKIGV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_000601</u>



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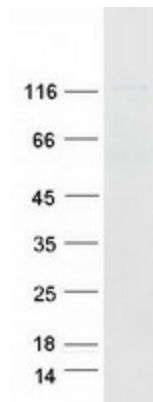
RefSeq Size:	5748
RefSeq ORF:	2226
Synonyms:	CDW44; CSPG8; ECMR-III; HCELL; HUTCH-I; IN; LHR; MC56; MDU2; MDU3; MIC4; Pgp1
Locus ID:	960
UniProt ID:	<a href="#">P16070</a>
Cytogenetics:	11p13

**Summary:** 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]

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

**Protein Pathways:** ECM-receptor interaction, Hematopoietic cell lineage

### Product images:



Coomassie blue staining of purified CD44 protein (Cat# [TP321771]). The protein was produced from HEK293T cells transfected with CD44 cDNA clone (Cat# [RC221771]) using MegaTran 2.0 (Cat# [TT210002]).