

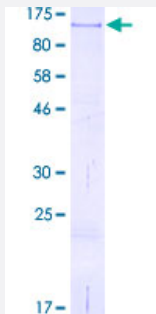
Full-Length

CD44 (Human) Recombinant Protein (P01)

Catalog # H00000960-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CD44 full-length ORF (AAH04372, 1 a.a. - 699 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MDKFWWHAAWGLCLVPLSLAQIDLNITCRFAGVFHVEKNGRYSISRTEAADLCKAFNSTLPTMAQ
MEKALSIGFETCRYGFIEGHVVIPRIHPNSICAAANTGVYILTSNTSQYDTCFNASAPPEEDCTSVT
DLPNAFDGPITITVNRDGRYVQKGEYRTNPEDIYPSNPTDDDVSSGSSSERSSTSGGYIFYTFSTV
HIPDEDSPWITDSTDRIPTSTSSNTISAGWEPNEENEDERDRHLSFSGSGIDDED FISSTISTT
PRAFDHTKQNDWTQWNPSHSNPEVLLQTTTRMTDVDRNGTTAYEGNWNPEAHPPLIHHEHHE
EEETPHSTSTIQATPSSTTEETATQKEQWFGNRWHEGYRQTPREDSSHSTTGTAASAHTSHPMQ
GRTPSPEDSSWTDFFNPISHPMGRGHQAGRRMDMDSSHSTTLQPTANPNTGLVEDLDRGTPL
SMTTQQSNSQSFSSTHEGLEEDKDHPTTSTLTSSNRNDVTGGRRDPNHSEGSTTLLEGYTSHP
HTKESRTFIPVTSAKTGSFGVTAVTVGDSNSNVNRSLSGDQDTFHPSGGSHTTHGSESDGHSHG
SQEGGANTTSGPIRTPQIPEWLILASLLALALILAVCIAVNSRRRCGQKKLVINSNGNGAVEDRKPS
GLNGEASKSQEMVHLVNKESSETPDQFMTADETRNLQNVD MKIGV

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

102.63

Interspecies Antigen Sequence

Mouse (55)

Preparation Method

[in vitro wheat germ expression system](#)

Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — CD44

Entrez GeneID	960
GeneBank Accession#	BC004372
Protein Accession#	AAH04372
Gene Name	CD44
Gene Alias	CDW44, CSPG8, ECMR-III, HCELL, IN, LHR, MC56, MDU2, MDU3, MGC10468, MIC4, MUTCH -I, Pgp1
Gene Description	CD44 molecule (Indian blood group)
Omim ID	107269
Gene Ontology	Hyperlink

Gene 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]

Other Designations

CD44 antigen|CD44 antigen (homing function and Indian blood group system)|CDW44 antigen|GP90 lymphocyte homing/adhesion receptor|Hermes antigen|antigen gp90 homing receptor|cell adhesion molecule|cell surface glycoprotein CD44|chondroitin sulfate proteoglycan

Publication Reference

- [In Vitro Selection of Modified RNA Aptamers Against CD44 Cancer Stem Cell Marker.](#)

Ababneh N, Alshaer W, Allozi O, Mahafzah A, El-Khateeb M, Hillaireau H, Noiray M, Fattal E, Ismail S.
Nucleic Acid Therapeutics 2013 Dec; 23(6):401.

Application: Incubated, Recombinant protein

- [MTI-101 \(Cyclized HYD1\) Binds a CD44 Containing Complex and Induces Necrotic Cell Death in Multiple Myeloma.](#)

Gebhard AW, Jain P, Nair RR, Emmons MF, Argilagos RF, Koomen JM, McLaughlin ML, Hazlehurst LA.
Molecular Cancer Therapeutics 2013 Nov; 12(11):2446.

Application: ELISA, Human, NCI-H929, U266 multiple myeloma cells

Pathway

- [ECM-receptor interaction](#)
- [Hematopoietic cell lineage](#)

Disease

- [Arthritis](#)
- [Breast Neoplasms](#)
- [Cardiovascular Diseases](#)
- [Cleft Lip](#)

- [Cleft Palate](#)
- [Craniofacial Abnormalities](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Head and Neck Neoplasms](#)
- [Heart Defects](#)
- [Hepatitis B](#)
- [Kidney Failure](#)
- [Mouth Abnormalities](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Ovarian Neoplasms](#)