

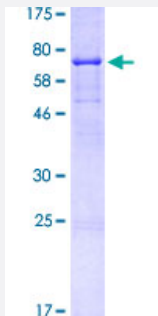
Full-Length

CD44 (Human) Recombinant Protein (P02)

Catalog # H00000960-P02

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CD44 full-length ORF (NP_001001391.1, 1 a.a. - 361 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MDKFWWHAAWGLCLVPLSLAQIDLNITCRFAGVFHVEKNGRYSISRTEAADLCKAFNSTLPTMAQ
MEKALSIGFETCRYGFIEGHVVIPRIHPNSICAANNTGVYILTSNTSQYDTCFNASAPPEEDCTSVT
DLPNAFDGPITITVNRDGRYVQKGEYRTNPEDIYPSNPTDDDVSSGSSSERSSTSGGYIFYTFSTV
HPIPEDSPWITDSTDRIPATRDQDTFHPSGGSHHTHGSESDGSHSGSQEGGANTTSGPIRTPQIP
EWLILASLLALALILAVCIAVNSRRRCGQKKKLVINSNGNGAVEDRKPSGLNGEASKSQEMVHLVN
KESSETPDQFMTADETRNLQNVDKIGV

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

65.8

Interspecies Antigen Sequence

Mouse (77)

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#**[NM_001001391.1](#)**Protein Accession#**[NP_001001391.1](#)**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|G P90 lymphocyte homing/adhesion receptor|Hermes antigen|antigen gp90 homing receptor|cell adhesion molecule|cell surface glycoprotein CD44|chondroitin sulfate proteoglycan

Publication Reference

- [Real-time quartz crystal microbalance cytosensor based on a signal recovery strategy for in-situ and continuous monitoring of multiple cell membrane glycoproteins.](#)

Zhou B, Hao Y, Long D, Yang P.

Biosensors & Bioelectronics 2018 Jul; 111:90.

Application: Quartz crystal microbalance, Human, MDA-MB-231 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](#)