

Recombinant human CD44 protein

Catalog Number: ATGP3785

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

21-220aa

UniProt No.

P16070

NCBI Accession No.

NP_000601

Alternative Names

CD44 antigen, CDw44, Epican, Extracellular matrix receptor III, ECMR-III, GP90 lymphocyte homing/adhesion receptor, HUTCH-I, Heparan sulfate proteoglycan, Hermes antigen, Hyaluronate receptor, Phagocytic glycoprotein 1, PGP-1, Phagocytic glycoprotein I, PGP-I, LHR, MDU2, MDU3, MIC4

PRODUCT SPECIFICATION

Molecular Weight

49 kDa (439aa)

Concentration

0.25mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

hIgG-His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

CD44, also known as CD44 antigen isoform 1, is a cell-surface glycoprotein involved in cell-cell interactions, cell adhesion and migration. The most extensively characterized ligand for CD44 is hyaluronan, a component of the

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extracellular matrix. It is expressed on the majority of immune cells. The binding of CD44 to hyaluronan is induced on T lymphocytes after activation by antigen and on monocytes after stimulation by inflammatory agents. It improves the prognostic efficacy of tumor differentiation. It might be determinant of differentiation characteristics, imparting properties of increased self-renewal, migration, and invasion. Also it involved in lymphocyte activation, recirculation and homing, and hematopoiesis. Recombinant human CD44, fused to hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

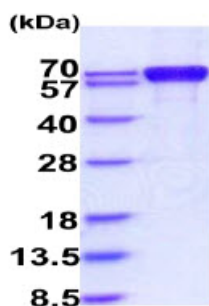
QIDLNITCRF AGVFHVEKNG RYSISRTEAA DLCKAFNSTL PTMAQMEKAL SIGFETCRYG FIEGHVVIPR IHPNSICAA
NTGVYILTSN TSQYDTYCFN ASAPPEEDCT SVTDLPNAFD GPITITIVNR DGTRYVQKGE YRTNPEDIYP SNPTDDDVSS
GSSSERSSTS GGYIFYTFST VHPIPEDDSP WITDSTDRIP LEPKSCDKTH TCPPCPAPEL LGGPSVFLFP PKPKDTLMIS
RTPEVTCVVV DVSHEDPEVK FNWYVDGVEV HNAKTKPREE QYNSTYRVVS VLTVLHQDWL NGKEYKCKVS NKALPAPIEK
TISKAKGQPR EPQVYTLPPS RDELTKNQVS LTCLVKGFPY SDIAVEWESN GQPENNYKTT PVLDSGGSF FLYSKLTVDK
SRWQQGNVFS CSVMHEALHN HYTQKSLSL S PGKHHHHHH

General References

Jackson DG., et al. (1992) Biol Chem. 267:4732-4739.
Morine Y., et al. (2017) Anticancer Res. 37:5701-5705.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.