

Homing Associated Cell Adhesion Molecule (HCAM) Active Protein | HCAM active protein

Active Homing Associated Cell Adhesion Molecule (HCAM)

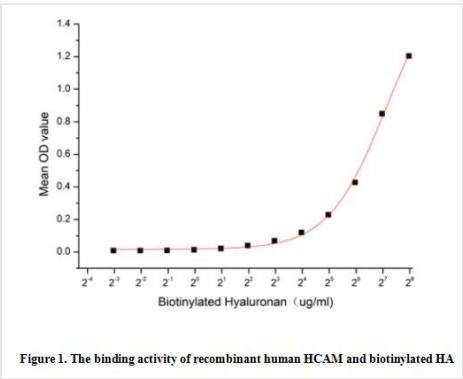
CATALOG # AAA161762	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Homing Associated Cell Adhesion Molecule (HCAM); Active Homing Associated Cell Adhesion Molecule (HCAM); Homing Associated Cell Adhesion Molecule; CDW44; CD44; CSPG8; ECMR-III; HCELL; IN; LHR; MC56; MDU2; MDU3; MIC4; MUTCH-I; Pgp1; Hematopoietic Cell E- And L-Selectin Ligand; Chondroitin Sulfate Proteoglycan 84; HCAM active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Gln21~Gln3 20
Applicable Applications for HCAM active protein	Activity Assay, Cell Culture
Species	Human
Expression System	Prokaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	4
Research Area	Signal transduction, CD & Adhesion molecule, Tumor immunity, Infection immunity, Immune molecule, Hematology
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

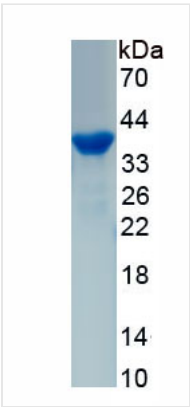


Bioactivity

Homing Associated Cell Adhesion Molecule (HCAM), also known as CD44, is a ubiquitous multistructural and multifunctional cells surface adhesion molecule involved in cell-cell and cell-matrix interactions. CD44 is broadly expressed, including in the membranes of B cells, granulocytes, monocytes, and erythrocytes as well as on many thymocytes and mature T cells, besides it is highly expressed in many cancers and regulates metastasis via recruitment of CD44 to the cell surface. This protein is a receptor for hyaluronic acid (HA) and can also interact with other ligands, such as osteopontin, collagens, and matrix metalloproteinases (MMPs). Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human HCAM and biotinylated hyaluronan (HA). Briefly, biotin-linked HA was diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to HCAM-coated microtiter wells and incubated for 2h at 37 degree C. Wells were washed with PBST 3 times and incubation with Streptavidin-HRP for 1 hour, then wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50 ul stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant human HCAM and biotinylated HA was shown in Figure 1, and this effect was in a dose dependent manner.

SDS-PAGE

Figure. SDS-PAGE



ADDITIONAL INFORMATION

Product Categories/Family for HCAM active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	48255935
NCBI GeneID	960
NCBI Accession #	NP_000601.3
NCBI GenBank Nucleotide #	NM_000610.3
UniProt Accession #	P16070; O95370; P22511; Q04858; Q13419; Q13957; Q13958; Q13959; A5YRN9; B6EAT9; D3DR12; D3DR13
Molecular Weight	81,538 Da
NCBI Official Full Name	CD44 antigen isoform 1
NCBI Official Synonym Full Names	CD44 molecule (Indian blood group)
NCBI Official Symbol	CD44
NCBI Official Synonym Symbols	IN; LHR; MC56; MDU2; MDU3; MIC4; Pgp1; CDW44; CSPG8; HCELL; HUTCH-I; ECMR-III
NCBI Protein Information	CD44 antigen; epican; Hermes antigen; hyaluronate receptor; phagocytic glycoprotein 1; heparan sulfate proteoglycan; cell surface glycoprotein CD44; extracellular matrix receptor III; chondroitin sulfate proteoglycan 8; GP90 lymphocyte homing/adhesion rec
UniProt Protein Name	CD44 antigen
UniProt Gene Name	CD44

UniProt Synonym Gene Names	LHR; MDU2; MDU3; MIC4; ECMR-III; PGP-1; PGP-I
UniProt Entry Name	CD44_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/homing-associated-cell-adhesion-molecule-hcam/161762>