

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

Active Homing Associated Cell Adhesion Molecule (HCAM)

CATALOG # AAA161766	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 95% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Gln24~Val1 82
Applicable Applications for HCAM active protein	Activity Assay, Cell Culture
Species	Rat
Expression System	Prokaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	4.5
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

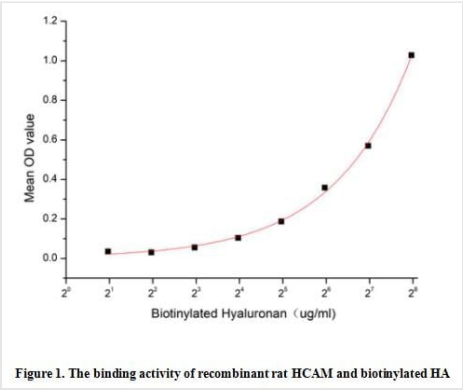
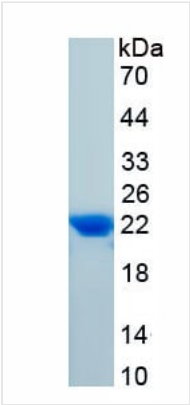


Figure 1. The binding activity of recombinant rat HCAM and biotinylated HA



SDS-PAGE
Figure. SDS-PAGE

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 rat HCAM and biotinylated hyaluronan (HA). Briefly, biotin-linked HA were 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 rat HCAM and biotinylated HA was shown in Figure 1, and this effect was in a dose dependent manner.

ADDITIONAL INFORMATION

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

NCBI GI #	564342041
NCBI GeneID	25406
NCBI Accession #	XP_006234693.1
NCBI GenBank Nucleotide #	XM_006234631.2
UniProt Accession #	P26051; Q99021
Molecular Weight	39,794 Da
NCBI Official Full Name	CD44 antigen isoform X7
NCBI Official Synonym Full Names	CD44 molecule (Indian blood group)
NCBI Official Symbol	Cd44
NCBI Official Synonym Symbols	CD44A; META4; RHAMM
NCBI Protein Information	CD44 antigen
UniProt Protein Name	CD44 antigen
UniProt Gene Name	Cd44
UniProt Synonym Gene Names	ECMR-III; PGP-1; PGP-I

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/161766>