

Cluster Of Differentiation 147 (CD147) Active Protein | CD147 active protein

Active Cluster Of Differentiation 147 (CD147)

CATALOG # AAA161852	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Cluster Of Differentiation 147 (CD147); Active Cluster Of Differentiation 147 (CD147); Cluster Of Differentiation 147; EMMPRIN; BSG; 5F7; M6; OK; TCSF; Basigin(Ok Blood Group); Collagenase stimulatory factor; OK blood group antigen; Tumor cell-derived collagenase stimulatory factor4; CD147 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	Ala22~Arg3 24
Applicable Applications for CD147 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	4.9
Research Area	CD & Adhesion molecule, Tumor immunity, Infection immunity, Reproductive science
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

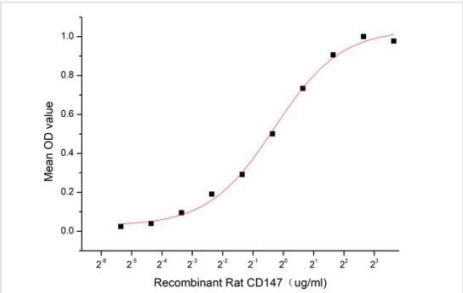
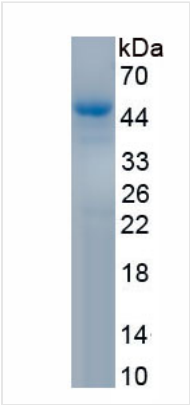


Figure 1. The binding activity of recombinant rat CD147 and recombinant human SLC3A2



SDS-PAGE
Figure. SDS-PAGE

Bioactivity
Extracellular matrix metalloproteinase (MMP) inducer (EMMPRIN), also known as basigin and CD147, is a 4466 kDa, variably N and Oglycosylated, type I transmembrane protein that belongs to the immunoglobulin superfamily. EMMPRIN is 269 amino acids (aa) in length and contains a 24 aa signal sequence, a 183 aa extracellular domain (ECD), a 21 aa transmembrane (TM) segment and a 41 aa cytoplasmic tail. The ECD contains one C2type and one Vtype Iglike domain. EMMPRIN is expressed in areas of tissue remodeling, including endometrium, placenta, skin, and regions undergoing angiogenesis. It is also expressed on cells with high metabolic activity, such as lymphoblasts, macrophages and particularly tumor cells. A functional ELISA assay was conducted to detect the interaction of recombinant rat EMMPRIN/CD147 and recombinant human SLC3A2. Briefly, CD147 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to SLC3A2-coated microtiter wells and incubated for 1h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-CD147 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37 degree C, 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 450/630nm immediately. The binding activity of recombinant rat CD147 and recombinant human SLC3A2 was shown in Figure 1, the EC50 for this effect is 0.82 ug/mL.

ADDITIONAL INFORMATION

Product Categories/Family for CD147 active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	158081773
NCBI GeneID	25246
NCBI Accession #	NP_001103352.1
NCBI GenBank Nucleotide #	NM_001109882.1
UniProt Accession #	P26453; Q7TNP1
Molecular Weight	29,585 Da
NCBI Official Full Name	basigin isoform 1
NCBI Official Synonym Full Names	basigin (Ok blood group)
NCBI Official Symbol	Bsg
NCBI Official Synonym Symbols	CE9; HT7; 5A11; Ox47R; EMMPRIN; basignin
NCBI Protein Information	basigin; Basigin (Ox47 antigen or CE-9) (EMMPRIN in human) (neurothelin HT7 or 5A11 in avian); Basignin (Ox47 antigen or CE-9) (EMMPRIN in human) (neurothelin HT7 or 5A11 in avian); OX-47 antigen; glycoprotein CE9
UniProt Protein Name	Basigin
UniProt Gene Name	Bsg

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/cluster-of-differentiation-147-cd147/161852>