

Laminin Gamma 1 (LAMC1) Active Protein | LAMC1 active protein

Active Laminin Gamma 1 (LAMC1)

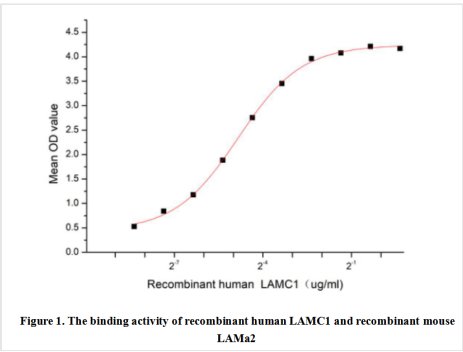
CATALOG # AAA161877	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Laminin Gamma 1 (LAMC1); Active Laminin Gamma 1 (LAMC1); Laminin Gamma 1; LAM-C1; LAMB2; S-laminin subunit gamma; Laminin B2 chain4; LAMC1 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	Ile521~Pro 772
Applicable Applications for LAMC1 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	5.3
Research Area	Metabolic pathway, Developmental science, Hepatology, Nutrition metabolism
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

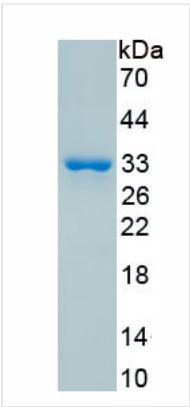


Bioactivity

Laminin Gamma 1 (LAMC1), also known as LAMB2, is a member of the laminin family of proteins. LAMC1 is expressed in a variety of tissues and organs, including liver, kidney, heart, and brain. Its expression level is usually regulated by a variety of factors, such as hormones, growth factors, and cytokines. At the cellular level, LAMC1 is mainly distributed in the basement membrane and extracellular matrix of cells, and plays the role of cell adhesion, migration, differentiation and signal transduction by binding to cell surface receptors. Besides, Laminin Alpha 2 (LAMA2) has been identified as an interactor of LAMC1, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human LAMC1 and recombinant mouse LAMa2. Briefly, LAMC1 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to LAMa2-coated microtiter wells and incubated for 1h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-LAMC1 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 450/630 nm immediately. The binding activity of recombinant human LAMC1 and recombinant mouse LAMa2 was shown in Figure 1, the EC50 for this effect is 0.03 ug/mL.

SDS-PAGE

Figure. SDS-PAGE



ADDITIONAL INFORMATION

Product Categories/Family for LAMC1 active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	145309326
NCBI GeneID	3915
NCBI Accession #	NP_002284.3
NCBI GenBank Nucleotide #	NM_002293.3
UniProt Accession #	P11047; Q5VYE7
Molecular Weight	177,603 Da
NCBI Official Full Name	laminin subunit gamma-1
NCBI Official Synonym Full Names	laminin, gamma 1 (formerly LAMB2)
NCBI Official Symbol	LAMC1
NCBI Official Synonym Symbols	LAMB2
NCBI Protein Information	laminin subunit gamma-1; S-LAM gamma; laminin B2 chain; S-laminin subunit gamma; laminin-2 subunit gamma; laminin-3 subunit gamma; laminin-4 subunit gamma; laminin-6 subunit gamma; laminin-7 subunit gamma; laminin-8 subunit gamma; laminin-9 subunit gamma;
UniProt Protein Name	Laminin subunit gamma-1
UniProt Gene Name	LAMC1

UniProt Synonym Gene Names	LAMB2; S-LAM gamma
UniProt Entry Name	LAMC1_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/laminin-gamma-1-lamc1/161877>