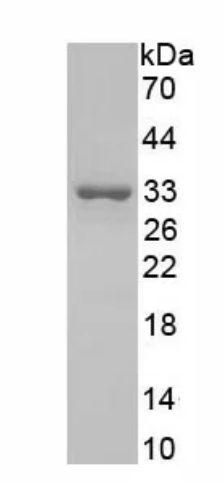
Active Laminin Gamma 1 (LAMC1)

Catalog#:PEH12814

概述（Summary）

别称（Alternative Names）	LAM-C1; LAMB2; S-laminin subunit gamma; Laminin B2 chain
纯度（Purity）	Greater than 95% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Ile521-Pro772】
Accession #	P11047
表达宿主（Host）	E.coli
种属（Species）	Homo sapiens (Human)
预测分子量（Predicted MW）	29.0 kDa
制剂（Form）	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
运输方式（Shipping）	The product is shipped with ice bag. Upon receipt, store it immediately at the temperature listed below.
稳定性&储存（Stability &Storage）	12 months at -20°C to -80°C in lyophilized state.6 months at -20°C to -80°C under sterile conditions after reconstitution.7-10 days at 2°C to 8°C under sterile conditions after reconstitution.Please minimize freeze-thaw cycles.
复溶（Reconstitution）	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
背景介绍（References）	Binding to cells via a high affinity receptor, laminin is thought to mediate the attachment, migration and organization of cells into tissues during embryonic development by interacting with other extracellular matrix components.

电泳图（SDS-PAGE image）



Greater than 95% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）

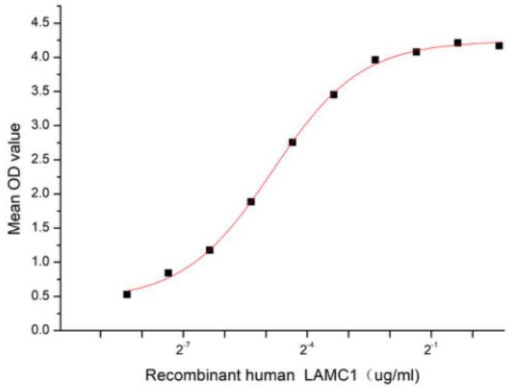


Figure 1. The binding activity of recombinant human LAMC1 and recombinant mouse LAMa2

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 µl were then transferred to LAMa2-coated microtiter wells and incubated for 1h at 37℃. 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℃, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37℃. Finally, add 50 µL 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.

注意事项（Note）

For Research Use Only , Not for Diagnostic Use.