

Anti-Human LAMC2 Antibody [PSH15-15] - BSA and Azide free (Detector)

HA723718



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	ELISA(Det)
Clone number:	PSH15-15

Description: Laminin subunit gamma-2 is a protein that in humans is encoded by the LAMC2 gene. Laminins, a family of extracellular matrix glycoproteins, are the major noncollagenous constituent of basement membranes. They have been implicated in a wide variety of biological processes including cell adhesion, differentiation, migration, signaling, neurite outgrowth and metastasis. Laminins are composed of 3 non identical chains: laminin alpha, beta and gamma (formerly A, B1, and B2, respectively) and they form a cruciform structure consisting of 3 short arms, each formed by a different chain, and a long arm composed of all 3 chains. Each laminin chain is a multidomain protein encoded by a distinct gene.

Immunogen: Recombinant protein within Human LAMC2 aa 603-1,193 (HA211219).

Positive control: Recombinant Human LAMC2 protein (HA211219).

Subcellular location: Secreted, extracellular space, extracellular matrix, basement membrane.

Database links: SwissProt: Q13753 Human

Recommended Dilutions:

ELISA(Det) Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH15-14] to Human LAMC2 antibody (Capture) (HA723717) and Recombinant Human LAMC2 protein (HA211219) as the standard. The reference range value is 23.4-6,000 pg/mL.

Storage Buffer: PBS (pH7.4).

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

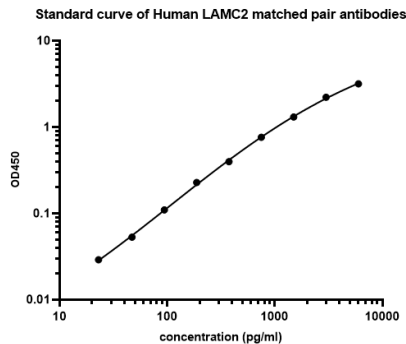
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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Sandwich ELISA analysis of human LAMC2 matched pair antibodies

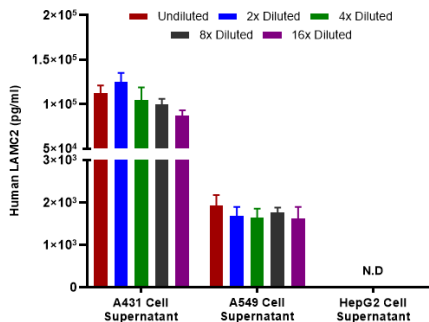
Capture: HA723717, Human LAMC2 Rabbit mAb [PSH15-14]
Detector: HA723718, Human LAMC2 Rabbit mAb [PSH15-15]



Elisa assay was performed by coating wells of a 96-well plate with 100 μ l per well of capture antibody (HA723717) diluted in carbonate/bicarbonate buffer, at a concentration of 2ug/ml overnight at 4 $^{\circ}$ C. Wells of the plate were washed, blocked with 150 μ l 0.05% tween-20 1% BSA blocking buffer, and incubated with serial diluted Recombinant Human LAMC2 protein (HA211219) starting from 6,000 pg/ml to 0 pg/ml and detect antibody (HA723718, Biotin, 0.2 μ g/ml) for 1 hour at 30 $^{\circ}$ C with shaking. Then the plate was washed and incubated with 100 μ l per well of SA-HRP for 0.5 hour at 30 $^{\circ}$ C with shaking. Detection was performed using an Ultra TMB Substrate for 10 minutes at room temperature in the dark. The reaction was stopped with sulfuric acid and absorbances were read on a spectrophotometer at 450 nm.

Fig2: Interpolated concentrations of native LAMC2 in human samples.

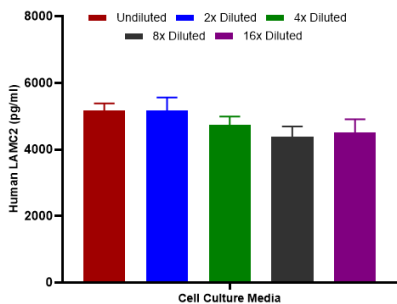
Capture: HA723717, Human LAMC2 Rabbit mAb [PSH15-14]
Detector: HA723718, Human LAMC2 Rabbit mAb [PSH15-15]



Interpolated concentration of native LAMC2 was measured in duplicate at different sample concentrations. The interpolated dilution factor corrected values were plotted (mean \pm SD, n=2). The mean LAMC2 concentration was determined to be 105,837 pg/mL in A431 and 1,733 pg/ml in A549 cell culture supernatant. There was no detectable signal in HepG2 cell culture supernatant.

Fig3: Interpolated concentrations of spiked LAMC2 in cell culture media samples.

Capture: HA723717, Human LAMC2 Rabbit mAb [PSH15-14]
Detector: HA723718, Human LAMC2 Rabbit mAb [PSH15-15]



The concentrations of LAMC2 were measured in duplicates, interpolated from the LAMC2 standard curves and corrected for sample dilution. Undiluted samples are as follows: cell culture media 50%. The interpolated dilution factor corrected values are plotted (mean \pm SD, n=2).

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Cave DD et al. LAMC2 marks a tumor-initiating cell population with an aggressive signature in pancreatic cancer. J Exp Clin Cancer Res. 2022 Oct
2. Erice O et al. LAMC2 Regulates Key Transcriptional and Targetable Effectors to Support Pancreatic Cancer Growth. Clin Cancer Res. 2023 Mar

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