abcam

ab134059

Anti-Laminin gamma 1 antibody [EPR8217]

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 50% Tissue culture supernatant, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR8217
Purity	Tissue culture supernatant

Reactivity data

ICC/IF

Not recommended

Species	Human
Dilution info	-
Notes	-

IP

Not recommended

Species	Human
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	1/1000 - 1/10000
Notes	-

IHC-P

Not recommended

Species	Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/10 - 1/100
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Target data

See full target information LAMC1

Function	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. As a subunit of laminin-1 (also known as laminin-111 or EHS laminin), it is involved in the stimulation of agrin-induced receptor clustering through a MuSK-independent pathway.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Storage information	Stable for 12 months at -20°C

Notes

Species reactivity
Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	Laminin gamma 1 also known as laminin-1 is an important component of the extracellular matrix. This protein has a molecular weight of about 200 kDa and is widely expressed in various tissues including epithelial and endothelial cells. Laminin gamma 1 is part of the larger laminin protein family which plays a significant role in the structural integrity of tissues. It primarily partners with other laminin chains to form a heterotrimeric complex that provides foundational support for cellular structures.
Biological function summary	Laminin gamma 1 contributes to cell adhesion differentiation and migration. It belongs to the laminin-1 complex serving as a scaffold for cells to interact with each other and with the extracellular matrix. This interaction facilitates cell signaling processes that influence cellular behavior. Additionally the laminin iHC

	(immunohistochemistry) technique often utilizes laminin gamma 1 to study cell-matrix interactions due to its involvement in these critical biological activities.
Pathways	Laminin gamma 1 is integral to basement membrane assembly and epithelial morphogenesis pathways. These pathways incorporate other key proteins such as integrins which mediate cell attachment to the laminin matrix. The pathway interactions involving laminin gamma 1 allow cells to respond effectively to mechanical and chemical stimuli thereby maintaining tissue homeostasis and promoting regenerative processes after injury.
Associated diseases and disorders	Abnormalities in laminin gamma 1 expression or function associate with conditions like muscular dystrophy and certain cancers. Mutations affecting this protein can lead to compromised structural integrity and impaired cellular communication. In muscular dystrophy its relationship with proteins such as dystroglycan highlights the disruption in muscle cell adhesion and signaling. Similarly in cancer altered laminin gamma 1 expression affects tumor cell invasion and metastasis involving interactions with proteins such as matrix metalloproteinases (MMPs) which regulate extracellular matrix remodeling.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

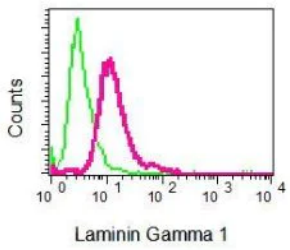
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

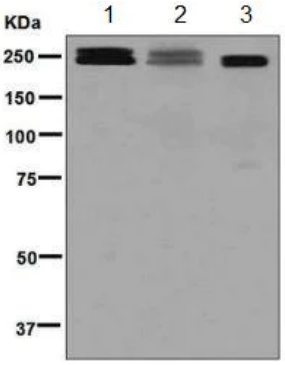
2 product images



Flow Cytometry (Intracellular) - Anti-Laminin gamma 1 antibody [EPR8217] (ab134059)

Laminin gamma 1 Flow Cytometry (Intracellular) staining using rabbit Anti-Laminin gamma 1 antibody

Intracellular Flow Cytometry analysis of permeabilized A431 cells labelling Laminin gamma 1 with ab134059 at 1/10 dilution (red). Rabbit IgG negative control shown in green.



Western blot - Anti-Laminin gamma 1 antibody [EPR8217] (ab134059)

Laminin gamma 1 Western blot staining using rabbit Anti-Laminin gamma 1 antibody

All lanes:
Western blot - Anti-Laminin gamma 1 antibody [EPR8217] (ab134059) at 1/1000 dilution

Lane 1:
HeLa cell lysate at 10 µg

Lane 2:
JAR cell lysate at 10 µg

Lane 3:
A431 cell lysate at 10 µg

Secondary

All lanes:
HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 178 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.