abcam

Product datasheet

Anti-LAMA3 antibody [EPR8266] ab151715

敲除验证 重组 RabMAb

2 References 4 图像

概述

产品名称	Anti-LAMA3抗体[EPR8266]
描述	兔单克隆抗体[EPR8266] to LAMA3
宿主	Rabbit
经测试应用	**适用于:** WB, ICC/IF **不适用于:** Flow Cyt,IHC-P or IP
种属反应性	**与反应:** Human
免疫原	Synthetic peptide corresponding to Human LAMA3. Database link: **Q16787**
阳性对照	HeLa, HepG2, A431, Human skin and SH-SY5Y lysates; HepG2 cells.
常规说明	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 production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**. Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20ºC.
存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
纯度	Tissue culture supernatant

克隆	单克隆
克隆编号	EPR8266
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab151715于以下的经测试应用**

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/1000 - 1/10000. Predicted molecular weight: 367 kDa.
ICC/IF		1/100 - 1/250.

应用说明 Is unsuitable for Flow Cyt,IHC-P or IP.

靶标

功能 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.
Laminin-5 is thought to be involved in (1) cell adhesion via integrin alpha-3/beta-1 in focal adhesion and integrin alpha-6/beta-4 in hemidesmosomes, (2) signal transduction via tyrosine phosphorylation of pp125-FAK and p80, (3) differentiation of keratinocytes.

组织特异性 Skin; respiratory, urinary, and digestive epithelia and in other specialized tissues with prominent secretory or protective functions. Epithelial basement membrane, and epithelial cell tongue that migrates into a wound bed. A differential and focal expression of the subunit alpha-3 is observed in the CNS.

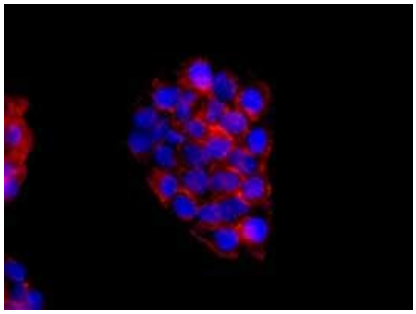
疾病相关 Defects in LAMA3 are a cause of epidermolysis bullosa junctional Herlitz type (H-JEB) [MIM:226700]; also known as junctional epidermolysis bullosa Herlitz-Pearson type. JEB defines a group of blistering skin diseases characterized by tissue separation which occurs within the dermo-epidermal basement membrane. H-JEB is a severe, infantile and lethal form. Death occurs usually within the first six months of life. Occasionally, children survive to teens. H-JEB is marked by bullous lesions at birth and extensive denudation of skin and mucous membranes that may be hemorrhagic.
Defects in LAMA3 are the cause of laryngoonychocutaneous syndrome (LOCS) [MIM:245660]. LOCS is an autosomal recessive epithelial disorder confined to the Punjabi Muslim population. The condition is characterized by cutaneous erosions, nail dystrophy and exuberant vascular granulation tissue in certain epithelia, especially conjunctiva and larynx.

序列相似性 Contains 15 laminin EGF-like domains.
Contains 5 laminin G-like domains.
Contains 1 laminin IV type A domain.
Contains 1 laminin N-terminal domain.

结构域 The alpha-helical domains I and II are thought to interact with other laminin chains to form a coiled coil structure.
Domain G is globular.

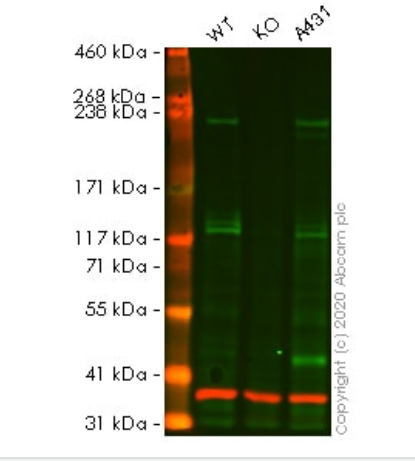
细胞定位 Secreted > extracellular space > extracellular matrix > basement membrane. Major component.

图片



Immunocytochemistry/ Immunofluorescence - Anti-LAMA3 antibody [EPR8266] (ab151715)

Immunofluorescent analysis of HepG2 cells labeling LAMA3 with ab151715 at 1/100 dilution.



Western blot - Anti-LAMA3 antibody [EPR8266] (ab151715)

All lanes : Anti-LAMA3 antibody [EPR8266] (ab151715) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate
Lane 2 : LAMA3 knockout HeLa cell lysate
Lane 3 : A431 cell lysate

Lysates/proteins at 20 µg per lane.

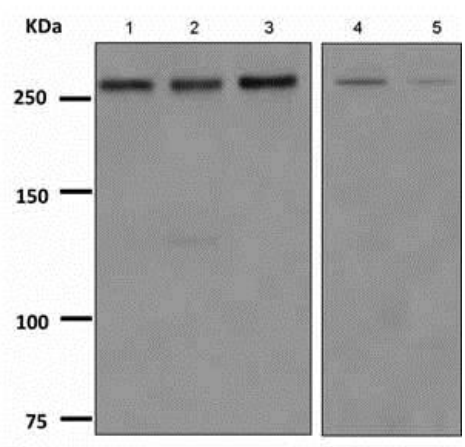
Performed under reducing conditions.

Predicted band size: 367 kDa
Observed band size: 367 kDa

Lanes 1 - 3: Merged signal (red and green). Green - ab151715 observed at 367 kDa. Red - loading control **ab7291** (Mouse anti-Alpha Tubulin [DM1A] observed at 55kDa.

ab151715 was shown to react with LAMA3 in wild-type HeLa cells in western blot with loss of signal observed in LAMA3 knockout cell line **ab265663** (LAMA3 knockout cell lysate **ab257497**). Wild-type and LAMA3 knockout HeLa cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3% milk in TBS-T (0.1% Tween®) before incubation with ab151715 and **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) overnight at 4°C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed

(**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-LAMA3 antibody [EPR8266] (ab151715)

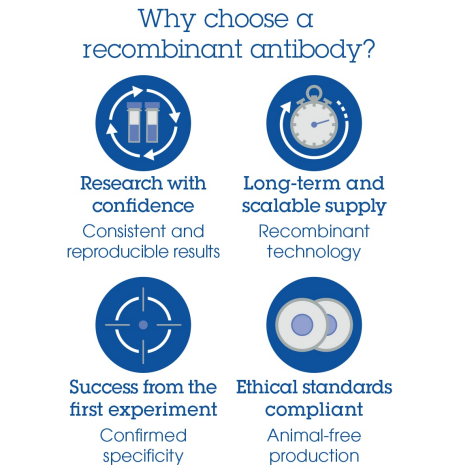
All lanes : Anti-LAMA3 antibody [EPR8266] (ab151715) at 1/1000 dilution

Lane 1 : HeLa cell lysate
Lane 2 : HepG2 cell lysate
Lane 3 : A431 cell lysate
Lane 4 : Human skin lysate
Lane 5 : SH-SY5Y cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat anti-rabbit HRP at 1/2000 dilution

Predicted band size: 367 kDa



Anti-LAMA3 antibody [EPR8266] (ab151715)

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