

## LAMA3/LAMA5 monoclonal antibody, clone AOAB-12

Catalog # MAB20435 Size 100 uL

### Applications



#### Western Blot (Cell lysate)

Western Blot analysis of HeLa cell lysate with LAMA3/LAMA5 monoclonal antibody, clone AOAB-12 (Cat # MAB20435).

Specification	
Product Description	Rabbit monoclonal antibody raised against synthetic peptide of human LAMA3/LAMA5.
Immunogen	A synthetic peptide corresponding to human LAMA3/LAMA5.
Host	Rabbit
Theoretical MW (kDa)	366.649
Reactivity	Human
Form	Liquid
Purification	Affinity purification
lsotype	lgG
Recommend Usage	Immunocytochemistry (1:50-1:200) Immunofluorescence (1:50-1:200) Western Blot (1:500-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide).

Copyright © 2023 Abnova Corporation. All Rights Reserved.

# 😵 Abnova

### **Product Information**

Storage Instruction

Store at -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and st ored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

### Applications

• Western Blot (Cell lysate)

Western Blot analysis of HeLa cell lysate with LAMA3/LAMA5 monoclonal antibody, clone AOAB-12 (Cat # MAB20435).

- Immunocytochemistry
- Immunofluorescence

#### Gene Info — LAMA3

Entrez GenelD	<u>3909</u>
Protein Accession#	<u>Q16787</u>
Gene Name	LAMA3
Gene Alias	BM600, E170, LAMNA, LOCS, lama3a
Gene Description	laminin, alpha 3
Omim ID	<u>226650 226700 245660 600805</u>
Gene Ontology	<u>Hyperlink</u>
Gene Summary	Laminins are basement membrane components thought to mediate the attachment, migration an d organization of cells into tissues during embryonic development by interacting with other extrace llular matrix components. The protein encoded by this gene is the alpha-3 subunit of laminin 5, whi ch is a complex glycoprotein composed of three subunits (alpha, beta, and gamma). Laminin 5 is thought to be involved in cell adhesion, signal transduction and differentiation of keratinocytes. Mu tations in this gene have been identified as the cause of Herlitz type junctional epidermolysis bullo sa. Alternatively spliced transcript variants encoding different isoforms have been identified for thi s gene. [provided by RefSeq
Other Designations	BM600 150kD subunit epiligrin 170 kda subunit epiligrin alpha 3 subunit kalinin 165kD subunit la minin alpha 3 subunit laminin, alpha 3 (nicein (150kD), kalinin (165kD), BM600 (150kD), epilegrin ) laminin-5 alpha 3 chain nicein 150kD subunit

# 😵 Abnova

Entrez GeneID3911Protein Accession#0.16787Gene NameLAMA5Gene AliasKKA1907Cene Descriptionlamin, alpha 5Omin ID601033Gene OntologyHyperinkGene SummaryComponents of the extracellular matrix exert myriad effects on tissues through the body. In parti alminins mediate the attachment, migration, and organization of cells into tissues during embryon development by interacting with other extracellular matrix components. Laminins function as the kidney, lung, skin, and nervous system. It is thought that alminins mediate the attachment, migration, and organization of cells into tissues during embryon development by interacting with other extracellular matrix components. Laminins function as the vidiner stracellular matrix components of the system with each chain type representing a different isoforms have been found for this gene but the full-length nature on component of this gene, but the full-length and the stracellular matrix components. Laminins function as her vidin entry of proteins. The protein encoded by RefSeqOther DesignationsImini napha 5[aminin apha-5 chain	Gene inio — Lawas	
Protein Accession#Q16787Gene NameLAMA5Gene AliasKIAA1907Gene DescriptionIaminin, alpha 5Omim ID601033Gene OntologyHyperlinkGene SummaryComponents of the extracellular matrix exert myriad effects on tissues throughout the body. In parti and integrity in such diverse organs as the kidney, lung, skin, and nenvous system. It is thought that atminins mediate the attachment, migration, and organization of cells into tissues during embryon diverse organs as the kidney, lung, skin, and nenvous system. It is thought that atminins mediate the attachment, migration, and organization of cells into tissues during embryons different isoforms have been found for this gene, but the full-length nature of one of them has and is different isoforms have been found for this gene, but the full-length nature of one of them have been found for this gene, but the full-length nature of one of them has and is different isoforms have been found for this gene, but the full-length nature of one of them has and is different isoforms have been found for this gene, but the full-length nature of one of them has and is different isoforms have been found for this gene, but the full-length nature of one of them has and is different isoforms have been found for this gene, but the full-length nature of one of them has and is different isoforms have been found for this gene, but the full-length nature of one of them has and is different isoforms have been found for this gene, but the full-length nature of one of them has and is different isoforms have been found for this gene, but the full-length nature of one of them has and is different isoforms have been found for this gene, but the full-length nature of one of them has and is different isoforms have been found for this gene, but the full-length nature of	Entrez GenelD	<u>3911</u>
Gene NameLAMA5Gene AliasKIAA1907Gene DescriptionIamini, alpha 5Omin ID601033Gene OntologyHyperlinkGene SummaryComponents of the extracellular matrix exert myriad effects on tissues throughout the body. In parti and integrity in such diverse organs as the kidney, lung, skin, and nervous system. It is though that and integrity in such diverse organs as the kidney, lung, skin, and nervous system. It is though that and integrity in such diverse organs as the kidney, lung, skin, and nervous system. It is though that and integrity in such diverse organs as the kidney, lung, skin, and nervous system. It is though that and integrity in such diverse organs as the kidney, lung, skin, and nervous system. It is though that and integrity in such diverse organs as the kidney, lung, skin, and nervous system. It is though that and integrity in such diverse organs as the kidney, lung, skin, and nervous system. It is though that and integrity in such diverse organs as the kidney, lung, skin, and nervous system. It is though that and integrity in such diverse organs as the kidney, lung, skin, and nervous system. It is though that and integrity in such diverse organs as the kidney, lung, skin, and nervous system. It is though that and integrity in such diverse organs as the kidney, lung, skin, and nervous system. It is though the and integrity in such diverse organs as the kidney, lung, skin, and nervous system. It is though the and integrity in such diverse organs as the kidney, lung, skin, and nervous system. It is though the and integrity in such diverse organs as the kidney, lung, skin, and nervous system. It is though that and integrity in such diverse organs as the kidney, lung, skin, and nervous system. It is though the and integrity in such diverse organs diverse organs. The transmitter organization of	Protein Accession#	<u>Q16787</u>
Gene AliasKIAA 1907Gene Descriptionlaminin, alpha 5Omim ID601033Gene OntologyHyperlinkGene SummaryComponents of the extracellular matrix exert myriad effects on tissues throughout the body. In parti cular, the laminins, a family of heterotrimeric extracellular glycoproteins, affect tissue development and integrity in such diverse organs as the kidney, lung, skin, and nervous system. It is thought that laminins mediate the attachment, migration, and organization of cells into tissues during embryoni c development by interacting with other extracellular matrix components. Laminins function as het erotrimeric complexes of alpha, beta, and gamma chains, with each chain type representing a different isoforms have been found for this gene, but the full-length nature of one of them has not been determined. [provided by RefSeqOther DesignationsIaminin alpha 5 laminin alpha-5 chain	Gene Name	LAMA5
Gene Descriptionlaminin, alpha 5Omim ID601033Gene OntologyHyperlinkGene SummaryComponents of the extracellular matrix exert myriad effects on tissues throughout the body. In parti and integrity in such diverse organs as the kidney, lung, skin, and nervous system. It is thought tha and integrity in such diverse organs as the kidney, lung, skin, and nervous system. It is thought the attinism mediate the attachment, migration, and organization of cells into tissues during embryoni c development by interacting with other extracellular matrix components. Laminins function as het performeric complexes of alpha, beta, and gamma chains, with each chain type representing a different isoforms have been found for this gene, but the full-length nature of one of them has not g different isoforms have been found for this gene, but the full-length nature of one of them has not been determined. [provided by RefSeqOther DesignationsIaminia plapa 5[aminin alpha-5 chain	Gene Alias	KIAA1907
Omin ID601033Gene OntologyHyperlinkGene SummaryComponents of the extracellular matrix exert myriad effects on tissues throughout the body. In parting cular, the laminins, a family of heterotrimeric extracellular glycoproteins, affect tissue development and integrity in such diverse organs as the kidney, lung, skin, and nervous system. It is thought that laminins mediate the attachment, migration, and organization of cells into tissues during embryonic development by interacting with other extracellular matrix components. Laminins function as het erotrimeric complexes of alpha, beta, and gamma chains, with each chain type representing a different isoforms have been found for this gene, but the full-length nature of one of them has not been determined. [provided by RefSeqOther DesignationsIaminin alpha 5  aminin alpha-5 chain	Gene Description	laminin, alpha 5
Gene OntologyHyperlinkGene SummaryComponents of the extracellular matrix exert myriad effects on tissues throughout the body. In parti cular, the laminins, a family of heterotrimeric extracellular glycoproteins, affect tissue development and integrity in such diverse organs as the kidney, lung, skin, and nervous system. It is thought that laminins mediate the attachment, migration, and organization of cells into tissues during embryoni c development by interacting with other extracellular matrix components. Laminins function as het erotrimeric complexes of alpha, beta, and gamma chains, with each chain type representing a diff minin chains and is a major component of basement membranes. Two transcript variants encodin g different isoforms have been found for this gene, but the full-length nature of one of them has not been determined. [provided by RefSeqOther DesignationsIaminin alpha 5 laminin alpha-5 chain	Omim ID	<u>601033</u>
Gene SummaryComponents of the extracellular matrix exert myriad effects on tissues throughout the body. In parti cular, the laminins, a family of heterotrimeric extracellular glycoproteins, affect tissue development and integrity in such diverse organs as the kidney, lung, skin, and nervous system. It is thought that laminins mediate the attachment, migration, and organization of cells into tissues during embryoni c development by interacting with other extracellular matrix components. Laminins function as het erotrimeric complexes of alpha, beta, and gamma chains, with each chain type representing a different subfamily of proteins. The protein encoded by this gene belongs to the alpha subfamily of la minin chains and is a major component of basement membranes. Two transcript variants encodin g different isoforms have been found for this gene, but the full-length nature of one of them has not been determined. [provided by RefSeqOther Designationslaminin alpha 5  aminin alpha-5 chain	Gene Ontology	<u>Hyperlink</u>
Other Designations Iaminin alpha 5   aminin alpha-5 chain	Gene Summary	Components of the extracellular matrix exert myriad effects on tissues throughout the body. In parti cular, the laminins, a family of heterotrimeric extracellular glycoproteins, affect tissue development and integrity in such diverse organs as the kidney, lung, skin, and nervous system. It is thought that laminins mediate the attachment, migration, and organization of cells into tissues during embryoni c development by interacting with other extracellular matrix components. Laminins function as het erotrimeric complexes of alpha, beta, and gamma chains, with each chain type representing a diff erent subfamily of proteins. The protein encoded by this gene belongs to the alpha subfamily of la minin chains and is a major component of basement membranes. Two transcript variants encodin g different isoforms have been found for this gene, but the full-length nature of one of them has not been determined. [provided by RefSeq
	Other Designations	laminin alpha 5∥aminin alpha-5 chain

## Pathway

- ECM-receptor interaction
- ECM-receptor interaction
- Focal adhesion
- Focal adhesion
- Pathways in cancer
- Pathways in cancer
- Small cell lung cancer
- Small cell lung cancer



#### Disease

- <u>Cardiovascular Diseases</u>
- <u>Cerebral Hemorrhage</u>
- <u>Chronic Disease</u>
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Hypertension
- Intracranial Hemorrhages
- <u>Kidney Diseases</u>
- Kidney Failure
- <u>Myocardial Infarction</u>
- <u>Stroke</u>
- Subarachnoid Hemorrhage