



Laminin 2 alpha Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP59038

## **Specification**

## Laminin 2 alpha Polyclonal Antibody - Product Information

Application
Primary Accession

Reactivity
Host
Clonality
Calculated MW
Physical State
Immunogen

Epitope Specificity

Isotype Purity

affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Secreted, extracellular space, extracellular

matrix, basement membrane. Note=Major

KLH conjugated synthetic peptide derived

component.

IHC-P, IHC-F, IF, ICC, E

Rat, Pig, Dog, Bovine

from human Laminin 2 alpha

P24043

**Rabbit** 

Liquid

laG

**Polyclonal** 

2051-2200/3122

341 KDa

SIMILARITY Contains 17 Iaminin EGF-like

domains.Contains 5 Iaminin G-like domains.Contains 2 Iaminin IV type A domains.Contains 1 Iaminin N-terminal

domain.

SUBUNIT Laminin is a complex glycoprotein,

consisting of three different polypeptide chains (alpha, beta, gamma), which are bound to each other by disulfide bonds into a cross-shaped molecule comprising one long and three short arms with

globules at each end. Alpha-2 is a subunit of laminin-2 (laminin-211 or merosin), laminin-4 (laminin-221 or S-merosin) and laminin-12 (laminin-213). Interacts with

FBLN1, FBLN2 and NID2.

DISEASE

Defects in LAMA2 are the cause of merosin-deficient congenital muscular dystrophy type 1A (MDC1A) [MIM:607855].

MDC1A is characterized by difficulty walking, hypotonia, proximal weakness,

hyporeflexia, and white matter

hypodensity on MRI.

Important Note

This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.



## **Background Descriptions**

Laminin, an extracellular protein, is a major component of the basement membrane. It is thought to mediate the attachment, migration, and organization of cells into tissues during embryonic development by interacting with other extracellular matrix components. It is composed of three subunits, alpha, beta, and gamma, which are bound to each other by disulfide bonds into a cross-shaped molecule. This gene encodes the alpha 2 chain, which constitutes one of the subunits of laminin 2 (merosin) and laminin 4 (s-merosin). Mutations in this gene have been identified as the cause of congenital merosin-deficient muscular dystrophy. Two transcript variants encoding different proteins have been found for this gene. [provided by RefSeq, Jul 2008].

#### Laminin 2 alpha Polyclonal Antibody - Additional Information

#### **Gene ID 3908**

#### **Other Names**

Laminin subunit alpha-2, Laminin M chain, Laminin-12 subunit alpha, Laminin-2 subunit alpha, Laminin-4 subunit alpha, Merosin heavy chain, LAMA2, LAMM

#### Target/Specificity

Placenta, striated muscle, peripheral nerve, cardiac muscle, pancreas, lung, spleen, kidney, adrenal gland, skin, testis, meninges, choroid plexus, and some other regions of the brain; not in liver, thymus and bone.

#### **Dilution**

<span class ="dilution\_IHC-P">IHC-P~~N/A</span><br \> <span class
="dilution\_IHC-F">IHC-F~~N/A</span><br \> <span class
="dilution\_IF">IF~~1:50~200</span><br \> <span class ="dilution\_ICC">ICC~~N/A</span><br \> <span class ="dilution\_E">E~~N/A</span>

# **Storage**

Store at -20  $^{\circ}$ C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4  $^{\circ}$ C.

## Laminin 2 alpha Polyclonal Antibody - Protein Information

## Name LAMA2

## Synonyms LAMM

#### **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.

#### **Cellular Location**

Secreted, extracellular space, extracellular matrix, basement membrane. Note=Major component

#### **Tissue Location**

Placenta, striated muscle, peripheral nerve, cardiac muscle, pancreas, lung, spleen, kidney, adrenal gland, skin, testis, meninges, choroid plexus, and some other regions of the brain; not in liver, thymus and bone

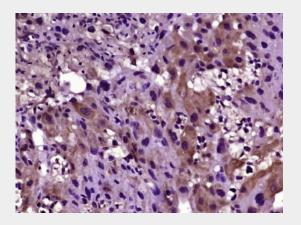


# Laminin 2 alpha Polyclonal Antibody - Protocols

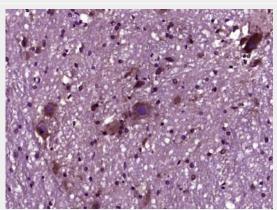
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

## Laminin 2 alpha Polyclonal Antibody - Images

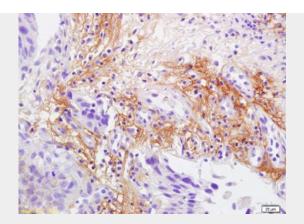


Paraformaldehyde-fixed, paraffin embedded (mouse placenta tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Laminin 2 alpha) Polyclonal Antibody, Unconjugated (bs-8561R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat spinal tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Laminin 2 alpha) Polyclonal Antibody, Unconjugated (bs-8561R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.





Tissue/cell: human bladder carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-Laminin 2 alpha Polyclonal Antibody, Unconjugated(bs-8561R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining