



# Laminin $\alpha$ -5 Monoclonal Antibody

<b>Catalog No</b>	BYmab-17041
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse
<b>Applications</b>	WB
<b>Gene Name</b>	LAMA5
<b>Protein Name</b>	Laminin subunit alpha-5
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human LAMA5. AA range:2381-2430
<b>Specificity</b>	Laminin $\alpha$ -5 Monoclonal Antibody detects endogenous levels of Laminin $\alpha$ -5 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Monoclonal, Mouse,IgG
<b>Purification</b>	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB 1:500-2000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	$\geq 90\%$
<b>Storage Stability</b>	$-20^{\circ}\text{C}/1$ year
<b>Synonyms</b>	LAMA5; KIAA0533; KIAA1907; Laminin subunit alpha-5; Laminin-10 subunit alpha; Laminin-11 subunit alpha; Laminin-15 subunit alpha
<b>Observed Band</b>	400kD
<b>Cell Pathway</b>	Secreted, extracellular space, extracellular matrix, basement membrane. Major component.
<b>Tissue Specificity</b>	Expressed in heart, lung, kidney, skeletal muscle, pancreas, retina and placenta. Little or no expression in brain and liver.
<b>Function</b>	domain:Domain G is globular and is part of the major cell-binding site located in the long arm of the laminin heterotrimer.,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.,similarity:Contains 1 laminin IV type A domain.,similarity:Contains 1 laminin N-terminal domain.,similarity:Contains 22 laminin EGF-like domains.,similarity:Contains 5 laminin G-like domains.,subcellular location:Major component.,subunit:Laminin-15 complex is an heterotrimer composed of three chains (alpha-5/beta-2/gamma-3) which are

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bound to each other by disulfide bonds into a cross-shaped molecule comprising one long and three short arms with globules at each end. tissue specificity: Expressed in heart, lung, kidney, skeletal mus

### Background

This gene encodes one of the vertebrate laminin alpha chains. 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. The protein encoded by this gene is the alpha-5 subunit of laminin-10 (laminin-511), laminin-11 (laminin-521) and laminin-15 (laminin-523). [provided by RefSeq, Jun 2013],

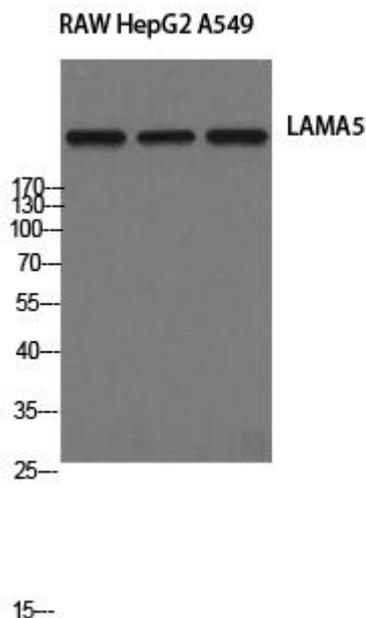
### matters needing attention

Avoid repeated freezing and thawing!

### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Western Blot analysis of various cells using Laminin  $\alpha$ -5 Monoclonal Antibody