

Datasheet: 5620-0436

BATCH NUMBER 151167

Description:	MOUSE ANTI HUMAN LAMININ ALPHA 5
Specificity:	LAMININ ALPHA 5
Format:	Ascites
Product Type:	Monoclonal Antibody
Clone:	4C7 (2D8/33)
Isotype:	IgG2a
Quantity:	50 µl

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			
Immunoprecipitation	▪			
Western Blotting		▪		
Immunofluorescence	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using the appropriate negative/positive controls.

Target Species	Human
Species Cross Reactivity	Does not react with:Rat, Mouse
Product Form	Ascites - liquid
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Immunogen	Purified human laminin.
External Database Links	UniProt: O15230 Related reagents

Entrez Gene:

[3911](#) LAMA5 [Related reagents](#)

Synonyms KIAA0533, KIAA1907

RRID AB_617326

Specificity **Mouse anti Human Laminin Alpha 5 antibody, clone 4C7** recognizes the laminin alpha 5 chain also known as Laminin-10 subunit alpha, Laminin-11 subunit alpha or Laminin-15 subunit alpha. Laminin is a complex glycoprotein composed of three polypeptide chain complexes. Laminin alpha 5 is expressed in heart, lung, kidney, skeletal muscle, pancreas, retina and placenta, there is little or no expression in brain and liver.

- References**
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 2. Engvall, E. *et al.* (1990) Distribution and isolation of four laminin variants; tissue restricted distribution of heterotrimers assembled from five different subunits. [Cell Regul. 1 \(10\): 731-40.](#)
 3. Ido, H. *et al.* (2006) Probing the integrin-binding site within the globular domain of laminin-511 with the function-blocking monoclonal antibody 4C7. [Matrix Biol. 25 \(2\): 112-7.](#)
 4. Chang, C. *et al.* (2015) A laminin 511 matrix is regulated by TAZ and functions as the ligand for the $\alpha 6 \beta 1$ integrin to sustain breast cancer stem cells. [Genes Dev. 29 \(1\): 1-6.](#)
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 7. Pouliot, N. & Kusuma, N. (2013) Laminin-511: a multi-functional adhesion protein regulating cell migration, tumor invasion and metastasis. [Cell Adh Migr. 7 \(1\): 142-9.](#)
 8. Schaff, M. *et al.* (2013) Integrin $\alpha 6 \beta 1$ is the main receptor for vascular laminins and plays a role in platelet adhesion, activation, and arterial thrombosis. [Circulation. 128 \(5\): 541-52.](#)
 9. Vuoristo, S. *et al.* (2013) A novel feeder-free culture system for human pluripotent stem cell culture and induced pluripotent stem cell derivation. [PLoS One. 8 \(10\): e76205.](#)
 10. Wondimu, Z. *et al.* (2013) A novel monoclonal antibody to human laminin $\alpha 5$ chain strongly inhibits integrin-mediated cell adhesion and migration on laminins 511 and 521. [PLoS One. 8 \(1\): e53648.](#)
 11. Breitkreutz, D. *et al.* (2013) Skin basement membrane: the foundation of epidermal integrity--BM functions and diverse roles of bridging molecules nidogen and perlecan. [Biomed Res Int. 2013: 179784.](#)
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Storage Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10081 available at:
<https://www.bio-rad-antibodies.com/SDS/5620-0436>
10081

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'M363304:200528'

Printed on 27 Apr 2023

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