

Datasheet: 5620-0436

Description:	MOUSE ANTI HUMAN LAMININ ALPHA 5
Specificity:	LAMININ ALPHA 5
Format:	Ascites
Product Type:	Monoclonal Antibody
Clone:	4C7 (2D8/33)
Isotype:	lgG2a
Quantity:	50 μΙ

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.

Specificity	Mouse anti Human I aminin Alpha 5 antihody clone 4C7 recogn
Synonyms	KIAA0533, KIAA1907
	3911 LAMA5 Related reagents
	Entrez Gene:
	O 19299 Indiated Tedgerite
Links	O15230 Related reagents
External Database	UniProt:
Immunogen	Purilled numan laminin.
Immunogon	Purified human laminin.
Stabilisers	0.00 // Godium Azide (Nary)
Preservative	0.09% Sodium Azide (NaN ₃)
FIGURE FOILI	Asolics - liquid
Product Form	Ascites - liquid
Reactivity	Does not react with:Rat, Mouse
Species Cross	
Target Species	Human

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

- 1. Engvall, E. *et al.* (1986) Mapping of domains in human laminin using monoclonal antibodies: localization of the neurite-promoting site. <u>J Cell Biol. 103 (6 Pt 1): 2457-65.</u>
- 2. Engvall, E. *et al.* (1990) Distribution and isolation of four laminin variants; tissue restricted distribution of heterotrimers assembled from five different subunits. <u>Cell Regul. 1 (10): 731-40.</u>
- 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. <u>Matrix Biol. 25 (2): 112-7.</u>
- 4. Chang, C. *et al.* (2015) A laminin 511 matrix is regulated by TAZ and functions as the ligand for the α6Bβ1 integrin to sustain breast cancer stem cells. Genes Dev. 29 (1): 1-6.
- 5. Zamurs, L. *et al.* (2013) Chain-specific antibodies for laminin-511. <u>Growth Factors. 31 (6):</u> 209-19.
- 6. Tiger, C.F. et al. (1997) Presence of laminin alpha5 chain and lack of laminin alpha1 chain during human muscle development and in muscular dystrophies. J Biol Chem. 272 (45): 28590-5.
- 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. <u>Circulation</u>. 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. <u>PLoS One. 8 (10): e76205.</u>
- 10. Wondimu, Z. *et al.* (2013) A novel monoclonal antibody to human laminin α 5 chain strongly inhibits integrin-mediated cell adhesion and migration on laminins 511 and 521. <u>PLoS One. 8 (1):</u> 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. <u>Biomed Res</u> Int. 2013: 179784.

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

Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10081 available at: 10081: https://www.bio-rad-antibodies.com/uploads/MSDS/10081.pdf
Regulatory	For research purposes only

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