

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.

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

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	1. Engvall, E. <i>et al.</i> (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. <i>et al.</i> (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. <i>et al.</i> (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. <i>et al.</i> (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. <i>et al.</i> (2013) Chain-specific antibodies for laminin-511. Growth Factors. 31 (6): 209-19.
	6. Tiger, C.F. <i>et al.</i> (1997) Presence of laminin alpha5 chain and lack of laminin alpha1 chain during human muscle development and in muscular dystrophies. <u>J Biol Chem. 272</u> (45): 28590-5.
	7. Pouliot, N. & Kusuma, N. (2013) Laminin-511: a multi-functional adhesion protein regulating cell migration, tumor invasion and metastasis. <u>Cell Adh Migr. 7 (1): 142-9.</u> 8. Schaff, M. <i>et al.</i> (2013) Integrin α6β1 is the main receptor for vascular laminins and plays a role in platelet adhesion, activation, and arterial thrombosis. <u>Circulation. 128 (5): 541-52.</u>
	 9. Vuoristo, S. <i>et al.</i> (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. <i>et al.</i> (2013) A novel monoclonal antibody to human laminin α5 chain strongly inhibits integrin-mediated cell adhesion and migration on laminins 511 and 521. <u>PLoS One. 8 (1): e53648.</u>
	11. Breitkreutz, D. <i>et al.</i> (2013) Skin basement membrane: the foundation of epidermal integrityBM functions and diverse roles of bridging molecules nidogen and perlecan. <u>Biomed Res Int. 2013: 179784.</u>
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
Regulatory	For research purposes only

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M363304:200528'

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