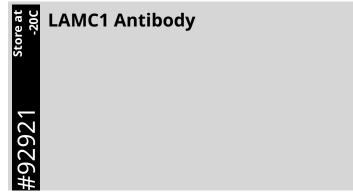
Rev	isi	on	1
<b>Nev</b>	121	ULI	





Orders:	877-616-CELL (2355) orders@cellsignal.com			
Support:	877-678-TECH (8324)			
Web:	info@cellsignal.com cellsignal.com			

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 220-250	Source/Isotype: Rabbit	<b>UniProt ID:</b> #P11047	Entrez-Gene Id: 3915			
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:50				
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				ycerol. Store at –			
Specificity/Sen	sitivity	LAMC1 antibody recognizes endogenous levels of total LAMC1 protein.							
Source / Purifi	<b>ication</b> Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp1365 of human LAMC1 protein. Antibodies are purified by protein A and peptide affinity chromatography.								
Background		Laminins are a family of proteins important for maintaining cellular basement membrane (BM) structure and function (1). Laminins exist as heterotrimers of alpha (LAMA), beta (LAMB), and gamma (LAMC) chains. LAMC1 (laminin gamma-1) is a ubiquitously expressed gamma chain, and has three distinct functional domain structures. The N-terminal LN domain binds to specific alpha and beta chains to form a unique laminin heterotrimer. The LE domain mediates interactions with nidogens, while the C-terminal coil-coil fragment is necessary for agrin association. Collectively, these interactions are critical for stabilization and function of the BM (1). Genetic ablation of LAMC1 has demonstrated a critical role for this protein in embryo implantation, lung and kidney development, and neuronal Schwann cell myelination and regeneration, in addition to Trypanosome infection (2-5). Upregulation of LAMC1 has also been associated with tumor progression in multiple tumor types (6-9), possibly by creating a BM environment that is favorable for cancer cell metastasis and invasion.							
Background References 1. Yurchenco, P.D. (2011) Cold Spring Harb Perspect Biol 3, a004911.   2. Ramathal, C. et al. (2011) J Biol Chem 286, 19860-71. 3. Willem, M. et al. (2002) Development 129, 2711-22.   4. Chen, Z.L. and Strickland, S. (2003) J Cell Biol 163, 889-99. 5. Nde, P.N. et al. (2012) Front Immunol 3, 337.   6. Liétard, J. et al. (1997) Am J Pathol 151, 1663-72. 7. Nishikawa, R. et al. (2014) Int J Oncol 45, 401-10.   8. Huang, S.X. et al. (2015) Gynecol Oncol 139, 338-44. 9. Kashima, H. et al. (2015) Gynecol Oncol 139, 338-44.									
Species Reactiv	vity	Species reactivity is det	ermined by testin	g in at least one approve	ed application (e.g.,	western blot).			
Western Blot E	Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				1 5% w/v BSA, 1X			
Applications K	ey	W: Western Blotting IP: Immunoprecipitation							
Cross-Reactivit	ty Key	H: Human M: Mouse R: Rat							
Trademarks ar	nd Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.							
		All other trademarks ar more information.	re the property of	heir respective owners.	Visit cellsignal.com	/trademarks for			
Limited Uses	<b>Limited Uses</b> Except as otherwise expressly agreed in a writing signed by a legally authorized representation the following terms apply to Products provided by CST, its affiliates or its distributors. Any C terms and conditions that are in addition to, or different from, those contained herein, unle					. Any Customer's			

separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.