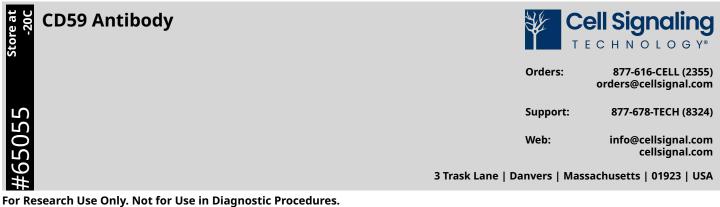
Rev	isi	on	1
<b>Nev</b>	121	ULI	



Applications: W	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 18	Source/Isotype: Rabbit	<b>UniProt ID:</b> #P13987	Entrez-Gene Id: 966			
Product Usage Information				<b>Dilution</b> 1:1000					
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/Sensitivity		CD59 Antibody recognizes endogenous levels of total CD59 protein.							
Source / Purific	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln99 of human CD59 protein. Antibodies are purified by protein A and peptide affinity chromatography.							
Background		CD59 is a GPI-anchored membrane protein that functions as an inhibitor of the complement membrane attack complex (MAC). CD59 binds to complement components C8 and C9, preventing C9 polymerization and insertion into membranes, therefore inhibiting the complement-dependent cytolysis (CDC) (1). CD59 is a ubiquitously expressed cell membrane protein that protects cells from CDC. Rare cases of CD59 deficiency have been reported to cause paroxysmal nocturnal hemoglobinuria in human patients (2,3). Expression of CD59 on tumor cells and viral infected cells makes them resist antibody-dependent complement-mediated lysis. Potent inhibitors for CD59 have been actively pursued for therapeutic applications (4,5). In addition, CD59 may regulate insulin secretion by modulating exocytosis (6).							
Background Re	eferences	1. Sugita, Y. and Masuho, Y. (1995) <i>Immunotechnology</i> 1, 157-68. 2. Mevorach, D. (2015) <i>Mol Immunol</i> 67, 51-5. 3. Höchsmann, B. and Schrezenmeier, H. (2015) <i>Hematol Oncol Clin North Am</i> 29, 495-507. 4. Cai, B. et al. (2014) <i>J Biol Chem</i> 289, 12109-25. 5. Lan, J. et al. (2014) <i>J Immunol</i> 193, 3577-89. 6. Krus, U. et al. (2014) <i>Cell Metab</i> 19, 883-90.							
Species Reactiv	vity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).			
Western Blot B	uffer			bate membrane with diluted primary antibody in 5% w/v nonfat 4°C with gentle shaking, overnight.					
Applications K	ey	W: Western Blotting							
Cross-Reactivit	y Key	H: Human							
Trademarks and Patents	Cell Signaling Techno	logy is a trademark	of Cell Signaling Techno	ology, Inc.					
		All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.							
Limited Uses		Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless 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 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.