Store at -20C	CD59 Antibody			
		Orders:	877-616-CELL (2355) orders@cellsignal.com	
55		Support:	877-678-TECH (8324)	
#65055		Web:	info@cellsignal.com cellsignal.com	
#		3 Trask Lane   Danvers   M	lassachusetts   01923   USA	

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

Applications: WB	Reactivity: H	Sensitivity: Endogenous	<b>MW (kDa):</b> 18	Source: Rabbit	UniProt ID: #P13987	Entrez-Gene Id 966		
Product Usage	A	oplication			Dilution			
Information	W	estern Blotting			1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity / Sensitivity		CD59 Antibody recognizes endogenous levels of total CD59 protein.						
Source / Purification		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 Refere	2. 1 3. 1 4. ( 5. 1	<ol> <li>Sugita, Y. and Masuho, Y. (1995) <i>Immunotechnology</i> 1, 157-68.</li> <li>Mevorach, D. (2015) <i>Mol Immunol</i> 67, 51-5.</li> <li>Höchsmann, B. and Schrezenmeier, H. (2015) <i>Hematol Oncol Clin North Am</i> 29, 495-507.</li> <li>Cai, B. et al. (2014) <i>J Biol Chem</i> 289, 12109-25.</li> <li>Lan, J. et al. (2014) <i>J Immunol</i> 193, 3577-89.</li> <li>Krus, U. et al. (2014) <i>Cell Metab</i> 19, 883-90.</li> </ol>						
Species Reactivity	Spe	cies reactivity is dete	ermined by testing i	n at least one appro	ved application (e.g., we	estern blot).		
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Key	WE	WB: Western Blotting						
Cross-Reactivity Ke	X: >	(enopus <b>Z:</b> zebrafish	I: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse Pig Rab: rabbit All: all species expected					
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