CD81 (D5O2Q) Rabbit mAb						
Stor				Orders:	877-616-CELL (2355) orders@cellsignal.com	
)37				Support:	877-678-TECH (8324)	
100				Web:	info@cellsignal.com cellsignal.com	
3 Trask Lane Danvers Massachusetts 01923 USA						
For Research Use Only. Not Applications: Re	for Use in Diagnostic Proc activity: Sensitivity:	edures. MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:	
WB, İP, IHC-P, IF-IC, FC-L	M Endogenous	22	Rabbit IgG	#P35762	12520	
Product Usage	Application	Application			Dilution	
Information	Western Blotting	Western Blotting			1:1000	
	Immunoprecipitation			1:	:50	
	Immunohistochemistry	/ (Paraffin)		1:	:50 - 1:200	
	Immunofluorescence	(Immunocytocher	mistry)	1	200 - 1:400	
	Flow Cytometry (Live)			1:	50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
For a carrier free (BSA and azide free) version of this product see product #79273.						
Specificity / Sensitivity CD81 (D5O2Q) Rabbit mAb recognizes endogenous levels of total CD81 protein.						
Source / Purification	Source / Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding residues surrounding Pro184 of mouse CD81 protein.				rresponding to	
Background	extracellular domain (E variety of cell surface p microdomains (TEMs) organization, and signa research studies demo	CD81 belongs to the tetraspanin family, which is characterized by four transmembrane domains, one short extracellular domain (ECL1), and one long extracellular domain (ECL2) (1-3). Tetraspanins interact with a variety of cell surface proteins and intracellular signaling molecules in specialized tetraspanin enriched microdomains (TEMs) where they mediate a range of processes including adhesion, motility, membrane organization, and signal transduction (3). CD81, like other tetraspanins, is enriched in exosomes (4). Many research studies demonstrate a role for CD81 in lymphocyte signaling (5-7). CD81 is also a well-characterized receptor for Hepatitis C Virus and facilitates the entry of the virus into target cells (8,9).				
Background Reference	es 1. Oren, R. et al. (1990) Mol Cell Biol 10	, 4007-15.			
Ū	2. Levy, S. et al. (1991)	2. Levy, S. et al. (1991) <i>J Biol Chem</i> 266, 14597-602. 3. Hemler, M.E. (2005) <i>Nat Rev Mol Cell Biol</i> 6, 801-11.				
	4. Escola, J.M. et al. (1					
	5. Levy, S. et al. (1998)					
	6. Levy, S. and Shohan 7. Jones, E.L. et al. (20	· · ·				
	8. Pileri, P. et al. (1998)	Science 282, 93	88-41.			
	9. Bartosch, B. et al. (2	003) J Biol Chem	a 278, 41624-30.			
			n in et leget	ad application (-	wastern blat)	
Species Reactivity	Species reactivity is det	Species reactivity is determined by testing in at least one approved application (e.g., western 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		WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-L: Flow Cytometry (Live)				
Cross-Reactivity Key	X: Xenopus Z: zebrafish	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected				

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