Store at -20C CD81 (D5O2Q) Rabbit mAb 1037 For Research Use Only. Not for Use in Diagnostic Procedures.



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Applications: W, IP, IHC-P, IF-IC, FC-L	Reactivity: M	Sensitivity: Endogenous	MW (kDa): 22	Source/Isotype: Rabbit IgG	UniProt ID: #P35762	Entrez-Gene Id: 12520
Product Usage Information		Application Western Blotting Immunoprecipitation Immunohistochemistry (Paraffin) Immunofluorescence (Immunocytochemistry) Flow Cytometry (Live)			Dilution 1:1000 1:50 1:50 - 1:200 1:200 - 1:400 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/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		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro184 of mouse CD81 protein.				
Background		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 References		 Oren, R. et al. (1990) <i>Mol Cell Biol</i> 10, 4007-15. Levy, S. et al. (1991) <i>J Biol Chem</i> 266, 14597-602. Hemler, M.E. (2005) <i>Nat Rev Mol Cell Biol</i> 6, 801-11. Escola, J.M. et al. (1998) <i>J Biol Chem</i> 273, 20121-7. Levy, S. et al. (1998) <i>Annu Rev Immunol</i> 16, 89-109. Levy, S. and Shoham, T. (2005) <i>Nat Rev Immunol</i> 5, 136-48. Jones, E.L. et al. (2011) <i>Biochem Soc Trans</i> 39, 506-11. Pileri, P. et al. (1998) <i>Science</i> 282, 938-41. Bartosch, B. et al. (2003) <i>J Biol Chem</i> 278, 41624-30. 				
Species Reactiv	/ity	Species reactivity is de	etermined by testing	g in at least one approve	ed 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.				n 5% w/v nonfat
Applications Key		W: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-L: Flow Cytometry (Live)				
Cross-Reactivity Key		M: Mouse				
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