

#93765  
Store at +4C**CD81 (D5O2Q) Rabbit mAb (PE Conjugate)**

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Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
FC-FP	M	Endogenous	Rabbit IgG	#P35762	12520

**Product Usage Information****Application**

Flow Cytometry (Fixed/Permeabilized)

**Dilution**

1:50

**Storage**

Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.

**Specificity/Sensitivity**

CD81 (D5O2Q) Rabbit mAb (PE Conjugate) 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.

**Description**

This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometric analysis in mouse cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated CD81 (D5O2Q) Rabbit mAb #10037.

**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) *Mol Cell Biol* 10, 4007-15.
- Levy, S. et al. (1991) *J Biol Chem* 266, 14597-602.
- Hemler, M.E. (2005) *Nat Rev Mol Cell Biol* 6, 801-11.
- Escola, J.M. et al. (1998) *J Biol Chem* 273, 20121-7.
- Levy, S. et al. (1998) *Annu Rev Immunol* 16, 89-109.
- Levy, S. and Shoham, T. (2005) *Nat Rev Immunol* 5, 136-48.
- Jones, E.L. et al. (2011) *Biochem Soc Trans* 39, 506-11.
- Pileri, P. et al. (1998) *Science* 282, 938-41.
- Bartosch, B. et al. (2003) *J Biol Chem* 278, 41624-30.

**Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Applications Key**

**FC-FP:** Flow Cytometry (Fixed/Permeabilized)

**Cross-Reactivity Key**

**M:** Mouse

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