## CD28 (CD28.2) Mouse mAb (PE Conjugate)



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

Product Usage Information  Flow Cytometry (Live)  Storage  Supplied in 10 mM NaH2PO4, 150 mM NaCl, 0.09% NaN3 for 12 months when stored at 4°C. Do not aliquot the ant antibody detects an epitope within the extracellular dom.  Source / Purification  This monoclonal antibody was purified from tissue cultur. The purified antibody was conjugated under optimal conpreparation.  Description  This Cell Signaling Technology antibody is conjugated to cytometry analysis in human cells.  Background  CD28 is a transmembrane glycoprotein expressed by T cell, 2). T cell activation requires T cell receptor (TCR) recognition makes the second signal required for na	
for 12 months when stored at 4°C. Do not aliquot the ant  Specificity/Sensitivity  CD28/CD28.2 Mouse mAb (PE Conjugate) recognizes end antibody detects an epitope within the extracellular dom.  Source / Purification  This monoclonal antibody was purified from tissue cultur The purified antibody was conjugated under optimal con preparation.  Description  This Cell Signaling Technology antibody is conjugated to cytometry analysis in human cells.  Background  CD28 is a transmembrane glycoprotein expressed by T ce (1, 2). T cell activation requires T cell receptor (TCR) recognizes and the extracellular dom.  CD28 is a transmembrane glycoprotein expressed by T cell (1, 2). T cell activation requires T cell receptor (TCR) recognizes end antibody detects an epitope within the extracellular dom.	<b>Dilution</b> 1:20
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(1, 2). T cell activation requires T cell receptor (TCR) recog MHC molecules. CD28 acts as a T cell costimulatory recep	E and tested in-house for direct flow
cells in the absence of CD28 stimulation can result in a st CD28 signals through cytoplasmic phospho-tyrosine mot containing proteins involved in T cell activation (2). Recen target of PD-1-mediated dephosphorylation. Consistently proliferation following PD-1 blockade and CD28 stimulati immunotherapy in mice (6, 7). Several CD28 isoforms are	tion of antigen presented in the context of or, and interaction of CD28 with its ligands e T cell activation (3-5). Activation of naïve T te of T cell anergy, or unresponsiveness (3). It is that bind several SH2 or SH3 domainty, CD28 was demonstrated to be a preferred CD28 expression was required for T cell in was required for effective anti-PD-1 cancer
1. Aruffo, A. and Seed, B. (1987) <i>Proc Natl Acad Sci U S A</i> 8 2. Esensten, J.H. et al. (2016) <i>Immunity</i> 44, 973-88. 3. Harding, F.A. et al. (1992) <i>Nature</i> 356, 607-9. 4. Azuma, M. et al. (1993) <i>Nature</i> 366, 76-9. 5. Linsley, P.S. et al. (1990) <i>Proc Natl Acad Sci U S A</i> 87, 503 6. Hui, E. et al. (2017) <i>Science</i> 355, 1428-1433. 7. Kamphorst, A.O. et al. (2017) <i>Science</i> 355, 1423-1427. 8. Magistrelli, G. et al. (1999) <i>Biochem Biophys Res Comm</i>	-5.

**Species Reactivity** 

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

**Applications Key** FC-L: Flow Cytometry (Live)

Cross-Reactivity Key H: Human

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