

## **Product Data Sheet**

## PE/Cy5 anti-human CD28

Catalog # / Size:	302910 / 100 tests		
Clone:	CD28.2		
Isotype:	Mouse IgG1, κ		
Workshop Number:	V-CD28.05	5	
Reactivity:	Human, <b>Cross-Reactivity:</b> Chimpanzee, Baboon, Cynomolgus, Rhesus, Pigtailed Macaque, Squirrel Monkey, Capuchin Monkey, Sooty Mangabey	I I I I I I I I I I I I I I I I I I I	
Preparation:	The antibody was purified by affinity chromatography, and conjugated with PE/Cy5 under optimal conditions. The solution is free of unconjugated PE/Cy5 and unconjugated antibody.	And the second s	
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).		
Storage:	The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. <b>Do not freeze.</b>	10 <sup>0</sup> 10 <sup>1</sup> Log Fluorese	
Application	Human peripheral b		

r ormalation.	0.2% (w/v) BSA (origin USA).		
Storage:	The antibody solution should be stored undiluted at 4°C prolonged exposure to light. <b>Do not freeze.</b>	and protected from	10 <sup>0</sup> 10 <sup>1</sup> 10 <sup>2</sup> 10 <sup>3</sup> 10 <sup>4</sup> Log Fluoresence Intensity
Application	S:		Human peripheral blood lymphocytes stained with CD28.2 PE/Cy5
Applications:	FC - Quality tested		
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. <b>Test</b> size products are transitioning from 20 $\mu$ l to 5 $\mu$ l per test. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 $\mu$ l staining volume or per 100 $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change.		
Application Notes:	Additional reported applications (for the relevant formats) include: immunoprecipitation, immunohistochemical staining of acetone-fixed frozen tissue sections <sup>4</sup> , and <i>in vitro</i> T cell costimulation <sup>5-8</sup> . The CD28.2 antibody co-stimulates T cell proliferation and cytokine production in the presence of suboptimal amounts of anti-CD3 antibody. The LEAF <sup>™</sup> purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 302914). For highly sensitive assays, we recommend Ultra-LEAF <sup>™</sup> purified antibody (Cat. No. 302934) with a lower endotoxin limit than standard LEAF <sup>™</sup> purified antibodies (Endotoxin <0.01 EU/µg).		
	Cy3, Cy5, Cy5.5 and Cy7 are subject to proprietary righ University and made and sold under license from GE H for research use only.	its of GE Healthcare B ealthcare Bio-Science	Bio-Sciences Corp. and Carnegie Mellon as Corp. Sale of this product is licensed
Application References:	<ol> <li>Schlossman S, et al. Eds. 1995. Leucocyte Typing V</li> <li>Nunes J, et al. 1993. Biochem. J. 293:835.</li> <li>Calea-Lauri J, et al. 1999. J. Immunol. 163:62.</li> <li>Tazi A, et al. 1999. J. Immunol. 163:3511. (IHC)</li> <li>Marti F, et al. 2001. J. Immunol. 166:197. (Costim)</li> <li>Jeong SH, et al. 2004. J. Virol. 78:6995. (Costim)</li> <li>Rivollier A, et al. 2004. Blood 104:4029. (Costim)</li> <li>Scharschmidt E, et al. 2004. Mol. Cell Biol. 24:3860.</li> <li>Sheng W, et al. 2007. Clin Chem.53:148. PubMed</li> <li>Ye Z, et al. 2008. Infect. Immun. 76:2541. PubMed</li> <li>Magatti M, et al. 2000. Exp. Anim. (Tokyo) 49:97. (</li> <li>Rout N, et al. 2010. PLoS One 5:e9787. (FC)</li> <li>Leonard JA, et al. 2011. J. Virol. 85:6867. PubMed</li> </ol>	(Costim) DMed FC)	ess. New York.
Description:	CD28 is a 44 kD disulfide-linked homodimeric type I gly and is also known as T44 or Tp44. CD28 is expressed CD28 binds both CD80 and CD86 using a highly conse a major co-stimulatory molecule, inducing T lymphocyte vitro studies indicate that ligation of CD28 on T cells by costimulatory signal required for T cell activation and pr	on most T lineage cells rved motif MYPPY in t e activation and IL-2 sy CD80 and CD86 on a	s, NK cell subsets, and plasma cells. the CDR3-like loop. CD28 is considered ynthesis, and preventing cell death. <i>In</i>
Antigen References:	<ol> <li>Schlossman S, <i>et al.</i> Eds. 1995. Leucocyte Typing V</li> <li>June CH, <i>et al.</i> 1994. <i>Immunol. Today</i> 15:321.</li> <li>Linskey PS, <i>et al.</i> 1993. <i>Annu. Rev. Immunol.</i> 11:191</li> </ol>	-	ess. New York.
Related Products	<b>:Product</b> PE/Cy5 anti-human CD80	Clone 2D10	Application FC
(1)	For research use only. Not for diagnostic use. Not for rese	0	e held responsible

\*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

for patent infringement or other violations that may occur with the use of our products.

PE/Cy5 anti-human CD86 PE/Cy5 Mouse IgG1, κ Isotype Ctrl Cell Staining Buffer RBC Lysis Buffer (10X) Human TruStain FcX™ (Fc Receptor Blocking Solution)

FC FC, ICFC FC, ICC, ICFC FC, ICFC FC, ICC, ICFC

IT2.2 MOPC-21

For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

(!)

\*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

BioLegend Inc., 9727 Pacific Heights Blvd, San Diego, CA 92121 www.biolegend.com Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587