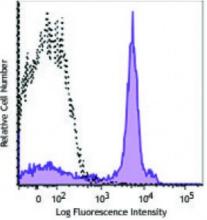
Product Data Sheet

APC/Cy7 anti-mouse CD38

Catalog # / Size:	1113640 / 100 μg 1113635 / 25 μg	
Clone:	90	1.8
Isotype:	Rat IgG2a, к	The state
Immunogen:	Mouse bone marrow pre-B cells	IN IN
Reactivity:	Mouse	he C
Preparation:	The antibody was purified by affinity chromatography and conjugated with APC/Cy7 under optimal conditions. The solution is free of unconjugated APC/Cy7 and unconjugated antibody.	Ed at
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.	C57BL/6 stained APC/Cy7
Concentration:	0.2	



C57BL/6 mouse splenocytes were stained with CD38 (clone 90) APC/Cy7 (filled histogram) or rat IgG2a, κ APC/Cy7 isotype control (open histogram).

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 0.125 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	Additional reported applications (for the relevant formats) include: immunohistochemistry ^{1,2} of acetone-fixed frozen sections, and induction of B cell proliferation1.
Application References:	1. Oliver AM, <i>et al.</i> 1997. <i>J. Immunol.</i> 158:1108. 2. Howard M, <i>et al.</i> 1993. <i>Science</i> 262:1056.
Description:	CD38 is a 42 kD glycoprotein, also known as T10. It is an ADP-ribosyl hydrolase, expressed on B cells, NK cells, a subset of T cells, brain, muscle, and kidney. In mouse, CD38 expression is downregulated on germinal center B cells and plasma cells, whereas this is not the case for humans. By functioning as both a cyclase and a hydrolase, CD38 mediates lymphocyte activation, as well as adhesion and metabolism of cADPR and NAADP. CD31 is the ligand of CD38.
Antigen References:	 Barclay AN, <i>et al.</i> 1997. The Leukocyte Antigen FactsBook Academic Press. Shubinsky G, <i>et al.</i> 1997. <i>Immunity</i> 7:315. Cesano A, <i>et al.</i> 1998. <i>J. Immunol.</i> 160:1106. Cockayne DA,

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