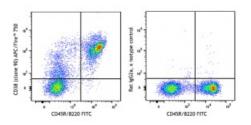
APC/Fire[™] 750 anti-mouse CD38

Catalog # / Size:	1113685 / 25 μg 1113690 / 100 μg
Clone:	90
lsotype:	Rat IgG2a, к
Immunogen:	Mouse bone marrow pre-B cells
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography and conjugated with APC/Fire [™] 750 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Concentration:	0.2 mg/mL



C57BL/6 splenocytes were stained with CD45R/B220 FITC and CD38 (clone 90) APC/Fire™ 750 (left) or rat IgG2a, κ isotype control (right).

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 $\leq 0.125 \ \mu$ g per million cells in 100 μ L volume. It is recommended that the reagent be titrated for optimal performance for each application.
	* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.
Application Notes:	Additional reported applications (for the relevant formats) include: immunohistochemistry ^{1,2} of acetone-fixed frozen sections, and induction of B cell proliferation ¹ .
Application References:	 Oliver AM, et al. 1997. J. Immunol. 158:1108. Howard M, et al. 1993. Science 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, et al. 1997. The Leukocyte Antigen FactsBook Academic Press. Shubinsky G, et al. 1997. Immunity 7:315. Cesano A, et al. 1998. J. Immunol. 160:1106. Cockayne DA, et al. 1998. Blood 92:1324.

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