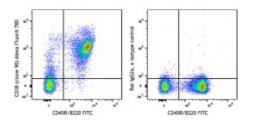
## Alexa Fluor® 700 anti-mouse CD38

Catalog # / Size:	1113705 / 25 μg
Clone:	90
lsotype:	Rat IgG2a, к
Immunogen:	Mouse bone marrow pre-B cells
<b>Reactivity:</b>	Mouse
Preparation:	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 700 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Concentration:	0.5 mg/mL



C57BL/6 splenocytes were stained with anti-mouse CD45R/B220 FITC and anti-mouse CD38 (clone 90) Alexa Fluor® 700 (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 $\leq 0.25 \ \mu$ g per million cells in 100 $\mu$ L volume. It is recommended that the reagent be titrated for optimal performance for each application.
	* Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor® 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.
Application Notes:	Additional reported applications (for the relevant formats) include: immunohistochemistry <sup>1,2</sup> of acetone-fixed frozen sections, and induction of B cell proliferation <sup>1</sup> .
Application References:	<ol> <li>Oliver AM, et al. 1997. J. Immunol. 158:1108.</li> <li>Howard M, et al. 1993. Science 262:1056.</li> </ol>
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:	<ol> <li>Barclay AN, et al. 1997. The Leukocyte Antigen FactsBook Academic Press.</li> <li>Shubinsky G, et al. 1997. Immunity 7:315.</li> <li>Cesano A, et al. 1998. J. Immunol. 160:1106.</li> <li>Cockayne DA, et al. 1998. Blood 92:1324.</li> </ol>

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