Product Data Sheet

PE/Dazzle™ 594 anti-mouse CD38

Catalog # / Size: 1113650 / 100 μg

1113645 / 25 μg

Clone: 90

Isotype: Rat IgG2a, κ

Immunogen: Mouse bone marrow pre-B cells

Reactivity: Mouse

Preparation: The antibody was purified by affinity

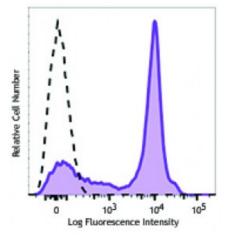
chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions. The solution is free of unconjugated PE/Dazzle™ 594 and

unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide.

Concentration: 0.2



C57BL/6 mouse splenocytes were stained with CD38 (clone 90)
PE/Dazzle™ 594 (filled histogram) or rat IgG2a, κ PE/Dazzle™ 594 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 ≤0.06 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

* PE/Dazzle $^{\scriptscriptstyle{\mathsf{TM}}}$ 594 has a maximum excitation of 566 nm and a maximum emission

of 610 nm.

Application Notes:

Additional reported applications (for the relevant formats) include:

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proliferation1.

Application References:

1. Oliver AM, et al. 1997. J. Immunol. 158:1108.

2. 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

1. Barclay AN, et al. 1997. The Leukocyte Antigen FactsBook Academic Press.

References: 2. Shubinsky G, et al. 1997. *Immunity* 7:315.

3. Cesano A, et al. 1998. J. Immunol. 160:1106.

4. Cockayne DA,