

**PE anti-mouse CD38**

**Catalog # / Size:** 1113540 / 200 µg  
1113535 / 50 µg

**Clone:** 90

**Isotype:** Rat IgG2a, κ

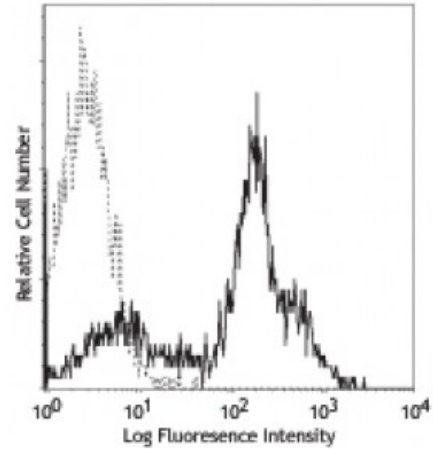
**Immunogen:** Mouse bone marrow pre-B cells

**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.2



C57BL/6 splenocytes stained with 90 FITC

**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.

**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:** 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 References:** 1. Barclay AN, *et al.* 1997. *The Leukocyte Antigen FactsBook* Academic Press.  
2. Shubinsky G, *et al.* 1997. *Immunity* 7:315.  
3. Cesano A, *et al.* 1998. *J. Immunol.* 160:1106.  
4. Cockayne DA,