

PE/Cyanine7 anti-mouse CD32 (Fcgr2)

Catalog # / Size: 1382050 / 100 µg
 1382045 / 25 µg

Clone: S17012B

Isotype: Rat IgG2b, κ

Immunogen: Mouse CD32 transfected cells

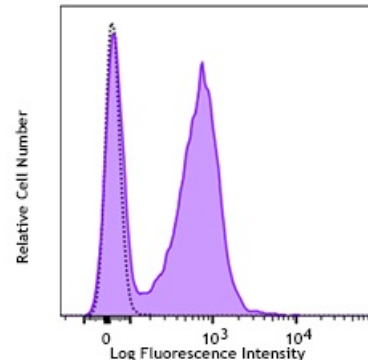
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 under optimal conditions.

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

Workshop Number: HCDM listed

Concentration: 0.2 mg/mL



C57BL/6 mouse splenocytes were stained with anti-mouse CD32 (clone S17012B) PE/Cyanine 7 (filled histogram) or rat IgG2b, κ PE/Cyanine 7 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 ≤ 0.5 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for relevant formats of this clone) include: costimulation¹ (clone 2E2 has been shown to enhance T-cell receptor mediated activation and cytokine secretion) and blocking^{2,3}.

Application References:

- Hastings WD, *et al.* 2009. *Eur. J. Immunol.* 39:2492. (Costim)
- Jones RB, *et al.* 2008. *J. Exp. Med.* 205:2763. (Block)
- Klibi J, *et al.* 2009. *Blood* 113:1957. (FC, Block)

Description: CD32 (Fcgr2) is a 40 kD transmembrane glycoprotein, member of the immunoglobulin superfamily. The extracellular region of CD32 consists of two Ig C-type domains that binds the Fc region from monomeric IgG with low affinity, but binds immune complexes efficiently. CD32 can mediate phagocytosis of immune complexes and modulate cell activation. CD32 is expressed by Macrophages, neutrophils, mast cells and B cells.

Antigen References:

- Negishi-Koga T, *et al.* 2015. *Nat Commun.* 6:6637
- Yamada DH, *et al.* 2015. *Immunity.* 42:379
- Clatworthy MR, *et al.* 2014. *Nat Med.* 20:1458
- Li F and Ravetch JV. 2011. *Science.* 333:1030
- Xiang Z, *et al.* 2007. *Nat Immunol.* 8:419