

PE/Dazzle™ 594 anti-mouse CD41

Catalog # / Size: 1269680 / 100 µg
1269675 / 25 µg

Clone: MWReg30

Isotype: Rat IgG1, κ

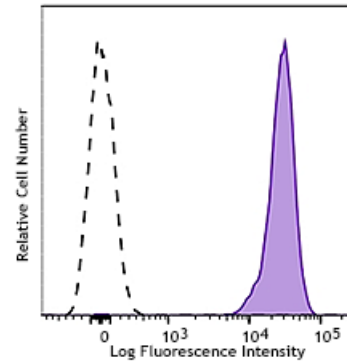
Immunogen: Mouse platelets

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 mg/ml



BALB/c mouse platelets were stained with CD41 (clone MWReg30) PE/Dazzle™ 594 (filled histogram) or rat IgG1, 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 ≤ 0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

* PE/Dazzle™ 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: depletion of platelets and functional assay *in vivo*.

Application References: 1. Bakewell SJ, *et al.* 2003. *P. Natl. Acad. Sci. USA* 100:14205.
2. Phillips DR, *et al.* 1991. *Cell.* 65:359.

Description: CD41, also known as integrin α2b and GPIIb, is a transmembrane glycoprotein that is expressed by platelets and megakaryocytes. It was reported that CD41 is also expressed on hematopoietic progenitors. CD41 associates with CD61 (integrin β3) to form complexes that interact with fibrinogen, fibronectin, von Willebrand factor, and thrombin. CD41 is required for platelet adhesion and aggregation. Defect of CD41 leads to disorders of coagulation.

Antigen References: 1. Bakewell SJ, *et al.* 2003. *P. Natl. Acad. Sci. USA* 100:14205.
2. Phillips DR, *et al.* 1991. *Cell.* 65:359.