

## Alexa Fluor® 647 anti-mouse CD41

**Catalog # /** 1269670 / 100 µg

**Size:** 1269665 / 25 µg

**Clone:** MWReg30

**Isotype:** Rat IgG1, κ

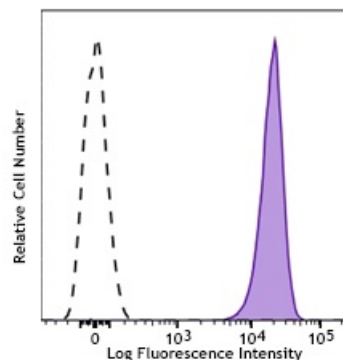
**Immunogen:** Mouse platelets

**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 647 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 647.

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

**Concentration:** 0.5 mg/ml



BALB/c mouse platelets were stained with CD41 (clone MWReg30) Alexa Fluor® 647 (filled histogram) or rat IgG1, Alexa Fluor® 647 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 ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

\* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 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.