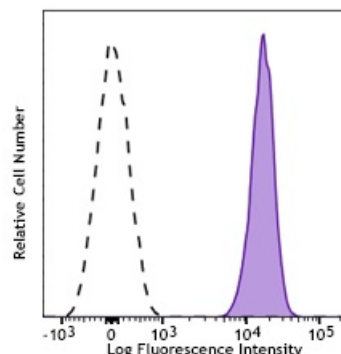


## Pacific Blue™ anti-mouse CD41

<b>Catalog # /</b>	1269655 / 25 µg
<b>Size:</b>	1269660 / 100 µg
<b>Clone:</b>	MWReg30
<b>Isotype:</b>	Rat IgG1, κ
<b>Immunogen:</b>	Mouse platelets
<b>Reactivity:</b>	Mouse
<b>Preparation:</b>	The antibody was purified by affinity chromatography and conjugated with Pacific Blue™ under optimal conditions.
<b>Formulation:</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Workshop Number:</b>	750 under optimal conditions.
<b>Concentration:</b>	0.5



BALB/c mouse platelets were stained with CD41 (clone MWReg30) Pacific Blue™ (filled histogram) or rat IgG1, κ Pacific Blue™ 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.

\* Pacific Blue™ has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue™ conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

**Application Notes:** Additional reported applications (for the relevant formats) include: depletion of platelets and functional assay *in vivo*.

- Application References:**
1. Nieswandt B, *et al.* 1999. *Blood* 94:684.
  2. Teeling JL, *et al.* 2001. *Blood* 98:1095.
  3. Bertrand JY, *et al.* 2005. *P. Natl. Acad. Sci. USA* 102:134.
  4. Nocito A, *et al.* 2007. *Hepatology* 45:369. (Deplete)
  5. Sullivan BP, *et al.* 2010. *Toxicol. Sci.* 115:286. (Deplete) [PubMed](#)
  6. van der Heyde HC, *et al.* 2005. *Blood* 105:1956. (FA)
  7. Marjon KD, *et al.* 2009. *J. Immunol.* 182:1397. (Deplete)

**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.

