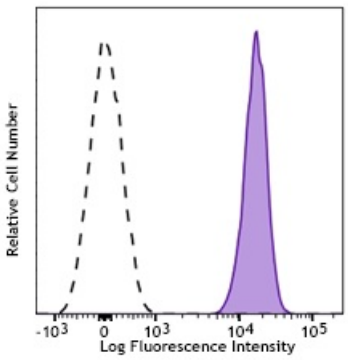
SONY

Product Data Sheet

Pacific Blue™ anti-mouse CD41

Catalog # / Size:	1269655 / 25 µg 1269660 / 100 µg
Clone:	MWReg30
Isotype:	Rat IgG1, κ
Immunogen:	Mouse platelets
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography and conjugated with Pacific Blueâ„¢ under optimal conditions. The solution is free of unconjugated Pacific Blueâ„¢.
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) Pacific BlueÃ¢â€žÂ¢ (filled histogram) or rat IgG1, ÃŽÂº Pacific BlueÃ¢â€žÂ¢ 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. 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.