SONY

Product Data Sheet

Biotin anti-mouse CD41

Catalog # / Size: 1269650 / 500 µg

Clone: MWReg30

Isotype: Rat IgG1, κ

Immunogen: Mouse platelets

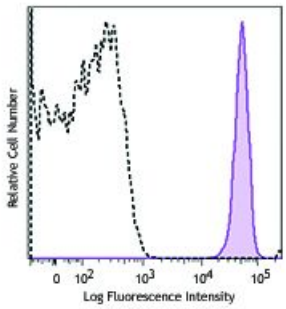
Reactivity: Mouse

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

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

Workshop Number: 750 under optimal conditions.

Concentration: 0.5



BALB/c mouse platelets were stained with biotinylated CD41 (clone MWReg30) (filled histogram) or biotinylated rat IgG1, κisotype control (open histogram), followed by SAV PE.

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 ≤1.0 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 the relevant formats) include: depletion of platelets and functional assay *in vivo*.[4,7] The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for *in vivo* studies (Cat. No. 133910).

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.

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