## Pacific Blue™ anti-human CD41

Catalog # / Size: 2118570 / 100 tests

2118565 / 25 tests

Clone: HIP8

**Isotype:** Mouse IgG1, κ

Reactivity: Human

**Preparation:** The antibody was purified by affinity

chromatography, and conjugated with Pacific Blue™ under optimal conditions. The solution is free of unconjugated

Pacific Blue™.

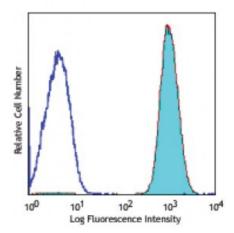
**Formulation:** Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and

0.2% (w/v) BSA (origin USA).

Workshop Number: **IV P38** 

Concentration: Lot-specific



Human peripheral blood platelets were stained with CD41 (clone HIP8) Pacific Blue™ (filled histogram) or mouse 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 5 microL per million cells or 5 microL per 100 microL of whole blood. 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: immunohistochemical staining of acetone-fixed frozen tissue sections and blocking of platelet aggregation2. The HIP8 antibody has been reported to block the activation of platelets by various stimuli, including collagen, and ADP.

Application References:

1. Knapp W, et al. 1989. Leucocyte Typing IV. Oxford University Press. New York.

**ences:** 2. McCarty OJT, *et al.* 2000. *Blood* 96:1789.

3. Yoshino N, et al. 2000. Exp. Anim. (Tokyo) 49:97. (FC)

4. Onasoga-Jarvis AA, et al. 2013. PLoS One. 13:78732. PubMed

**Description:** CD41 is a 125/25 kD  $\alpha$  subunit of the gpllb/llla (CD41/CD61) complex. CD41 is a

heterodimer composed of a heavy chain (gpIlb $\alpha$ ) and light chain (gpIlb $\beta$ ) linked by a single disulfide bond. It is a member of the integrin family primarily expressed on platelets and megakaryocytes. CD41 has been reported to be involved with platelet aggregation and platelet attachment to the ECM. CD41/CD61 complex acts as the receptor for fibrinogen, fibronectin, Von Willebrand factor, and

thrombin.

Antigen

- 1. Denzin L, et al. 1996. J. Exp. Med. 184:2153.
- **References:** 2. Denzin L, et al. 1995. Cell 82:155.
  - 3. Riberdy J, et al. 1994. J. Cell Biol. 125:1225.

