

# Product Data Sheet

## Purified anti-human CD42b

**Catalog # / Size:** 303902 / 100 µg

**Clone:** HIP1

**Isotype:** Mouse IgG1, κ

**Workshop Number:** IV P70

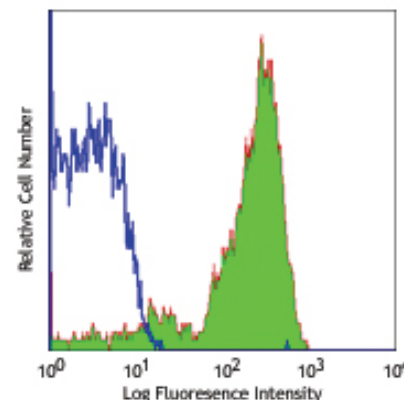
**Reactivity:** Human, **Cross-Reactivity:** Chimpanzee

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

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

**Concentration:** 0.5 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C.



Human peripheral blood platelets stained with purified HIP1, followed by anti-mouse IgGs FITC

## Applications:

**Applications:** FC - *Quality tested*  
 WB, IHC - *Reported in the literature*

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤ 0.5 µg per 10<sup>6</sup> cells in 100 µl volume or 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections, Western blotting, and inhibition of platelet aggregation<sup>2</sup>. The LEAF™ Purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 303908).

**Application References:** 1. Knapp W, *et al.* 1989. Leucocyte Typing IV. Oxford University Press. New York.  
 2. Takahashi R, *et al.* 1999. *Blood* 93:1951.

**Description:** CD42b is a 145 kD glycoprotein known as gplbα. It is composed in a heterodimer with a β chain (CD42c, gplbβ) through a disulfide bond. CD42b is expressed on platelets and megakaryocytes. CD42b/c heterodimer forms a complex with CD42a and d and acts as the receptor for Von Willibrand factor and thrombin.

**Antigen References:** 1. Clemetson K, *et al.* 1982. *J. Clin. Invest.* 70:304.  
 2. Fox J, *et al.* 1988. *J. Biol. Chem.* 263:4882.  
 3. Kuijpers R, *et al.* 1992 *Blood* 79:283.

### Related Products:

**Product**  
 Purified anti-human CD41  
 Purified Mouse IgG1, κ Isotype Ctrl  
 APC Goat anti-mouse IgG (minimal x-reactivity)  
 Biotin Goat anti-mouse IgG (minimal x-reactivity)  
 FITC Goat anti-mouse IgG (minimal x-reactivity)  
 HRP Goat anti-mouse IgG (minimal x-reactivity)  
 PE Goat anti-mouse IgG (minimal x-reactivity)  
 Cell Staining Buffer  
 RBC Lysis Buffer (10X)

**Clone**  
 HIP8  
 MOPC-21  
 Poly4053  
 Poly4053  
 Poly4053  
 Poly4053  
 Poly4053

**Application**  
 FC, IHC, CyTOF®  
 FC, ICFC, ICC, IF, IHC, IP, WB  
 FC  
 FC, ELISA, IHC, IF, WB  
 FC  
 ELISA, IHC, WB  
 FC  
 FC, ICC, ICFC  
 FC, ICFC



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