

## PE anti-human CD42b

**Catalog # / Size:** 303905 / 25 tests  
303906 / 100 tests

**Clone:** HIP1

**Isotype:** Mouse IgG1,  $\kappa$

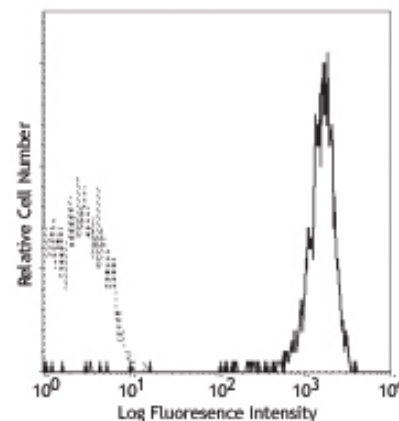
**Workshop Number:** IV P70

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

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human platelets stained with HIP1 PE

## Applications:

**Applications:** FC - Quality tested

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20  $\mu$ l to 5  $\mu$ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100  $\mu$ l staining volume or per 100  $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at [www.biolegend.com/testsize](http://www.biolegend.com/testsize) regarding the test size change.

**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/ $\mu$ g, Azide-Free, 0.2  $\mu$ m 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 gplb $\alpha$ . It is composed in a heterodimer with a  $\beta$  chain (CD42c, gplb $\beta$ ) 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	Clone	Application
PE anti-human CD41	HIP8	FC
PE Mouse IgG1, $\kappa$ Isotype Ctrl	MOPC-21	FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC



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