SONY

Product Data Sheet

APC anti-human CD42b

Catalog # / Size: 2119560 / 100 tests

Clone: HIP1

Isotype: Mouse IgG1, κ

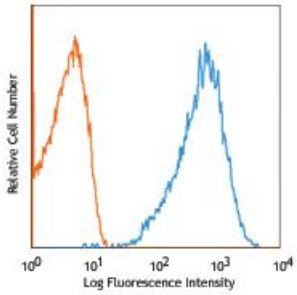
Reactivity: Human

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

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

Workshop Number: IV P70

Concentration: Lot-specific

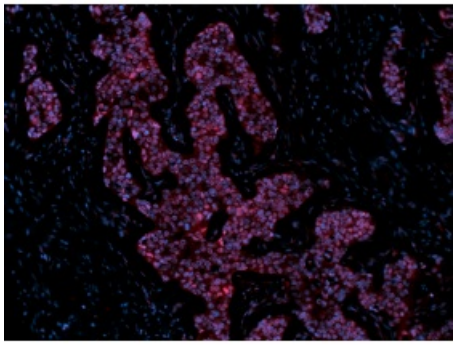


Human peripheral blood platelets stained with HIP1 APC

Applications:

Applications: Flow Cytometry

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 µl to 5 µl per test**. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 µl staining volume or per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.



Application Notes: Clone HIP1 recognizes an epitope within the N-terminal region of the GPIbα chain5. Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections, Westerm blotting, and inhibition of platelet aggregation2. 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.
3. Saggu G, *et al.* 2013. *J. Immunol.* 190:6457. PubMed
4. Meyer Dos Santos S, *et al.* 2011. *Blood.* 117:4999. (Block) PubMed
5. Vettore S, *et al*. 2008. *Haematologica*. 93:1743.

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Description: CD42b is a 145 kD glycoprotein known as gpIbα. It is covalently bonded to CD42c to form GPIb. 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.

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