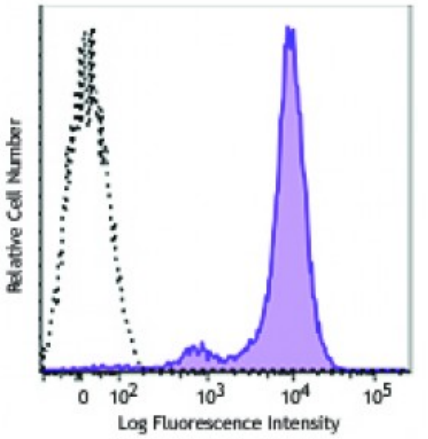
SONY

Product Data Sheet

Alexa Fluor® 488 anti-human CD42b

Catalog # / Size:	2119570 / 100 tests
Clone:	HIP1
Isotype:	Mouse IgG1, κ
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 488 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Workshop Number:	IV P70
Concentration:	Lot-specific



Human platelets were stained with CD42b (clone HIP1) Alexa Fluor® 488 (filled histogram) or mouse IgG1, κ Alexa Fluor® 488 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. * Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488 nm.
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.

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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