

PE anti-mouse/rat CD42d

Catalog # / Size: 1342520 / 100 µg
1342515 / 25 µg

Clone: 1C2

Isotype: Hamster IgG

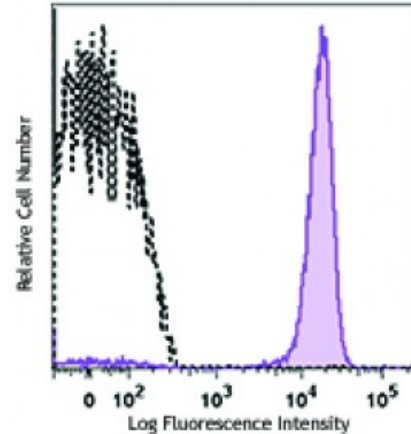
Immunogen: Mouse platelets

Reactivity: Mouse,Rat

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.

Concentration: 0.2



C57BL/6 platelets (resting) were stained with CD42d (clone 1C2) PE (filled histogram) or Armenian Hamster IgG PE 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 ≤ 0.5 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.
- Application Notes:** Additional reported applications (for relevant formats) include: immunoprecipitation^{1,3}.
- Application References:**
1. Takada K, *et al.* 1995. *Hybridoma*. 14:361. (IP)
 2. Saito M, *et al.* 1996. *Stem Cells*. 14:124. (FC)
 3. Sato N, *et al.* 2000. *Hybridoma*. 19:455. (IP)

Description: CD42d is an 83 kD surface glycoprotein that non-covalently associates with GPIb and GPIX to form a receptor complex for von Willebrand factor on megakaryocytes and resting platelets. Binding sites for von Willebrand factor and thrombin have been localized to the GPIb chain of the GPI-b-V-IX complex. Platelet activation with thrombin cleaves the GPI-b-V-IX complex to release a 69 kD soluble fragment. Presence of the GPI-b-V-IX complex is important in Bernard-Soulier syndrome, a rare bleeding disorder.

Antigen References:

1. Sivaraman B, *et al.* 2011. *Biomaterials*. 32:5365.
2. Berger G, *et al.* 1996. *Blood*. 87:1385.
3. Ravanat C, *et al.* 1997. *Blood*. 89:3253.
4. Andrews RK, *et al.* 1998. *Bi*