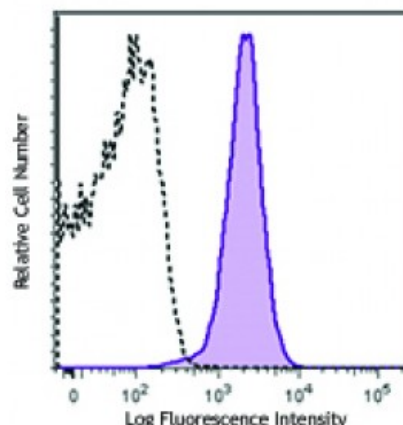


PerCP/Cy5.5 anti-mouse/rat CD42d

Catalog # / Size:	1342540 / 100 µg 1342535 / 25 µg
Clone:	1C2
Isotype:	Hamster IgG
Immunogen:	Mouse platelets
Reactivity:	Mouse,Rat
Preparation:	The antibody was purified by affinity chromatography and conjugated with PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 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) PerCP/Cy5.5 (filled histogram) or Armenian Hamster IgG PerCP/Cy5.5 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 ≤ 0.25 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

* PerCP/Cy5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.

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 α 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*