

Technical Data Sheet

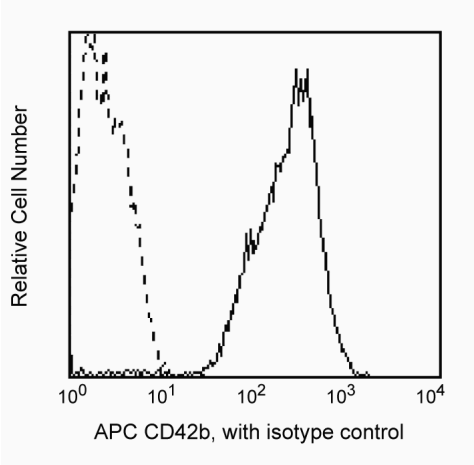
APC Mouse Anti-Human CD42b

Product Information

Material Number:	551061
Alternate Name:	GP1BA; GPIbalpha; GP-Ib alpha; GPIb-alpha; CD42b-alpha; Glycocalicin; BSS
Size:	100 tests
Vol. per Test:	20 µl
Clone:	HIP1
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	IV P40
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The HIP1 monoclonal antibody specifically binds to CD42b. CD42b is also known as the Platelet glycoprotein Ib alpha chain that is encoded by the *GP1BA* gene. CD42b is disulfide bonded to CD42c to form a 170 kDa heterodimer, GPIb. GPIb forms a noncovalent complex with CD42a and CD42d (CD42 complex) that is expressed on platelets and megakaryocytes. The CD42 complex serves as the von Willebrand Factor (vWF) surface receptor involved in the adhesion of platelets to the subendothelium of damaged vascular walls. HIP1 inhibits the ristocetin-dependent binding of vWF to platelets and partially inhibits collagen-induced aggregation.



Profile of CD42b (HIP1) reactivity on peripheral blood platelets analyzed by flow cytometry

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated to APC under optimum conditions, and unconjugated antibody and free APC were removed.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
555751	APC Mouse IgG1, κ Isotype Control	100 tests	MOPC-21
554656	Stain Buffer (FBS)	500 ml	(none)

Product Notices

- This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1×10^6 cells in a 100-µl experimental sample (a test).
- Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
- Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

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4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
5. This APC-conjugated reagent can be used in any flow cytometer equipped with a dye, HeNe, or red diode laser.
6. An isotype control should be used at the same concentration as the antibody of interest.
7. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.

References

George NP, Wei Q, Shin PK, Konstantopoulos K, Ross JM. Staphylococcus aureus adhesion via Spa, CifA, and SdrCDE to immobilized platelets demonstrates shear-dependent behavior. *Arterioscler Thromb Vasc Biol.* 2006; 26(10):2394-2400. (Clone-specific; Functional assay)

Knapp W, Dorken B, Rieber EP, et al, ed. *Leucocyte Typing IV*. New York: Oxford University Press; 1989:1-1208. (Clone-specific)

Schlossman S, Boumell L, et al, ed. *Leucocyte Typing V*. New York: Oxford University Press; 1995. (Biology)

Zola H, Swart B, Nicholson I, Voss E. *Leukocyte and Stromal Cell Molecules. The CD Markers*. Hoboken, New Jersey: John Wiley & Sons, Inc.; 2007:1-581. (Biology)

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