

Technical Data Sheet

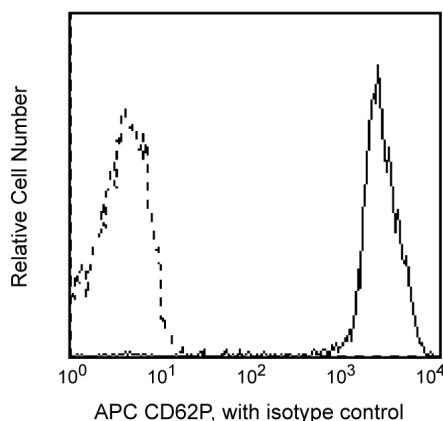
APC Mouse Anti-Human CD62P

Product Information

| | |
|-------------------------|---|
| Material Number: | 561920 |
| Alternate Name: | P-Selectin; GMP-140; PADGEM |
| Size: | 25 tests |
| Vol. per Test: | 20 µl |
| Clone: | AK-4 |
| Isotype: | Mouse IgG1, κ |
| Reactivity: | QC Testing: Human |
| Workshop: | VI P-44 |
| Storage Buffer: | Aqueous buffered solution containing BSA and ≤0.09% sodium azide. |

Description

Reacts with the 140 kDa membrane glycoprotein, P-Selectin, formerly known as platelet activation-dependent granule membrane protein (PADGEM), or GMP-140. P-Selectin is stored in the α-granules of platelets and the Weibel-Palade bodies of endothelial cells, and is rapidly transported to the plasma membrane upon activation. P-Selectin is thought to mediate the initial adhesive interactions of neutrophils and monocytes with endothelium in inflammatory responses, and of activated platelets to neutrophils and monocytes in hemostasis.



Profile of thrombin-activated 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

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

1. 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).
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.
4. 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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5. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
6. This APC-conjugated reagent can be used in any flow cytometer equipped with a dye, HeNe, or red diode laser.

References

Johnson-Tidey RR, McGregor JL, Taylor PR, Poston RN. Increase in the adhesion molecule P-selectin in endothelium overlying atherosclerotic plaques. Coexpression with intercellular adhesion molecule-1. *Am J Pathol.* 1994; 144(5):952-961. (Biology)

Kishimoto T, von dem Borne AEG, Goyert SM, et al., ed. *Leucocyte Typing VI: White Cell Differentiation Antigens*. London: Garland Publishing; 1997. (Clone-specific)

Lasky LA. Selectins: interpreters of cell-specific carbohydrate information during inflammation. *Science.* 1992; 258(5084):964-969. (Biology)

Schlossman SF, Boumsell L, Gilks W, et al, ed. *Leukocyte Typing V: White Cell Differentiation Antigens*. New York: Oxford University Press; 1995. (Biology)