

Technical Data Sheet

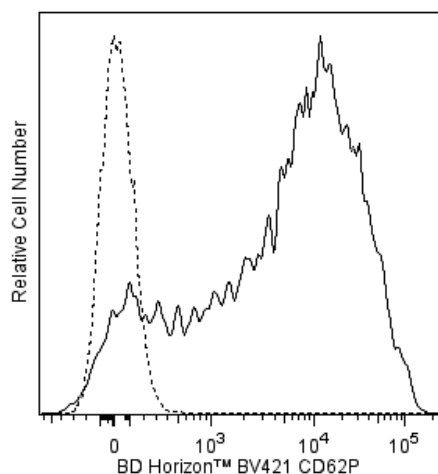
BV421 Mouse Anti-Human CD62P**Product Information**

| | |
|-------------------------|---|
| Material Number: | 564037 |
| Alternate Name: | P-Selectin; GMP-140; PADGEM |
| Size: | 25 tests |
| Vol. per Test: | 5 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

The AK-4 monoclonal antibody specifically binds to CD62P. CD62P is a 140 kDa type I transmembrane glycoprotein that is also known as P-Selectin, 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.

The antibody was conjugated to BD Horizon™ BV421 which is part of the BD Horizon Brilliant Violet™ family of dyes. With an Ex Max of 407-nm and Em Max at 421-nm, BD Horizon BV421 can be excited by the violet laser and detected in the standard Pacific Blue™ filter set (eg, 450/50-nm filter). BD Horizon BV421 conjugates are very bright, often exhibiting a 10 fold improvement in brightness compared to Pacific Blue™ conjugates.



Flow cytometric analysis of CD62P expression on human platelets. Human platelets were activated with human thrombin (Sigma T-8885; 20 U/ml final concentration). The platelets were stained with either BD Horizon™ BV421 Mouse IgG1, κ Isotype Control (Cat. No. 562438; dashed line histograms) or BD Horizon™ BV421 Mouse Anti-Human CD62P antibody (Cat. No. 564037/564038; solid line histogram). The fluorescence histograms were derived from events with the forward and side light-scatter characteristics of platelets. Flow cytometric analysis was performed using a BD LSRFortessa™ Cell Analyzer System.

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 with BD Horizon™ BV421 under optimum conditions, and unconjugated antibody and free BD Horizon™ BV421 were removed.

Application Notes**Application**

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| Flow cytometry | Routinely Tested |
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| 877.232.8995 | 800.268.5430 | 32.2.400.98.95 | 0120.8555.90 | 65.6861.0633 | 55.11.5185.9995 |

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Suggested Companion Products

| <u>Catalog Number</u> | <u>Name</u> | <u>Size</u> | <u>Clone</u> |
|-----------------------|-------------------------------------|-------------|--------------|
| 554656 | Stain Buffer (FBS) | 500 ml | (none) |
| 554657 | Stain Buffer (BSA) | 500 ml | (none) |
| 562438 | BV421 Mouse IgG1, k Isotype Control | 50 µg | X40 |
| 564038 | BV421 Mouse Anti-Human CD62P | 100 tests | AK-4 |

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. An isotype control should be used at the same concentration as the antibody of interest.
3. 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.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
5. Pacific Blue™ is a trademark of Molecular Probes, Inc., Eugene, OR.
6. Brilliant Violet™ 421 is a trademark of Sirigen.
7. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
8. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.

References

De Haas M, Von Dem Borne AEG. CD62P Workshop Panel Report. In: Kishimoto T, von dem Borne AEG, Goyert SM, et al., ed. *Leucocyte Typing VI: White Cell Differentiation Antigens*. London: London; 1997:663-664. (Clone-specific: Immunoprecipitation, Western blot)

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: Flow cytometry)

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

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