Technical Data Sheet

BV510 Rat Anti-Mouse CD162

Product Information

Material Number: 563448
Alternate Name: Selplg; PSGL-1; Psgl1; Selp1; Selpl; P-selectin glycoprotein ligand 1
Size: 50 µg
Concentration: 0.2 mg/ml
Clone: 2PH1
Immunogen: Ovalbumin-conjugated peptide covering amino acids 42 to 60 of mouse PSGL-1
Isotype: Rat (LEW) IgG1, κ
Reactivity: QC Testing: Mouse
Storage Buffer: Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The 2PH1 monoclonal antibody specifically binds to the N-terminus of CD162 (P-selectin glycoprotein ligand-1, PSGL-1), encoded by the Selplg gene. PSGL-1 is expressed on the cell surface as a homodimer of approximately 230 kDa. In the mouse, Selpl mRNA is detected in most tissues, with high levels found in hematopoietic cells, brain, and adipose tissue. Flow cytometric analyses have revealed CD162 expression on bone marrow-derived mast and dendritic cells, splenic leukocytes, platelets, peripheral blood neutrophils, and neutrophil and T-cell lines. PSGL-1 is a ligand for P-selectin (CD62P) and is involved in leukocyte rolling, the migration of leukocytes into inflamed tissues, and responses to vascular injury. It is a sialomucin that must be specifically sialylated, fucosylated, and sulfated to bind P-selectin. There is also evidence that other ligands for PSGL-1 and CD62P may exist. The 2PH1 antibody is reported to block binding of mouse leukocytes to CD62P, but the 4RA10 antibody (Cat. No. 557787) has significantly greater blocking activity.

The antibody was conjugated to BD Horizon™ BV510 which is part of the BD Horizon™ Brilliant Violet™ family of dyes. With an Ex Max of 405-nm and Em Max at 510-nm, BD Horizon™ BV510 can be excited by the violet laser and detected in the BD Horizon™ V500 (525/50-nm) filter set. BD Horizon™ BV510 conjugates are useful for the detection of dim markers off the violet laser.

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™ BV510 under optimum conditions, and unconjugated antibody and free BD Horizon™ BV510 were removed.

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## Application Notes

### Flow cytometry Routinely Tested

#### Suggested Companion Products

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<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
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<td>R3-34</td>
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<td>Lysing Buffer</td>
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#### Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
3. An isotype control should be used at the same concentration as the antibody of interest.
5. 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.
6. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
7. Brilliant Violet™ 510 is a trademark of Sirigen.

#### References