PE Mouse Anti-Human CD177

**Product Information**
- **Material Number:** 564239
- **Alternate Name:** NB1
- **Size:** 50 tests
- **Vol. per Test:** 5 µl
- **Clone:** MEM-166
- **Isotype:** Mouse IgG1, κ
- **Reactivity:** QC Testing: Human
- **Workshop:** VII 70510
- **Storage Buffer:** Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

**Description**
The MEM-166 monoclonal antibody specifically binds to CD177 which is also known as NB1 (Neutrophil-specific antigen), HNA-2a (Human neutrophil alloantigen 2a), and PRV1 (Polycythemia rubra vera 1). CD177 is a glycoposphatidylinositol (GPI)-anchored plasma membrane glycoprotein (56-64 kDa). CD177 is expressed on subpopulations of neutrophils, neutrophilic metamyelocytes and myelocytes from 89 to 97% of healthy individuals. It is also expressed on secondary granules. Its expression is upregulated on granulocytes stimulated with the chemotactic peptide f-met-leu-phe (fMLP). Although the function of CD177 has not been fully established, some reports suggest its possible role as receptor molecule involved in leucocyte migration.

**Flow cytometric analysis of CD177 expression on human peripheral blood granulocytes.** Whole blood was stained with either PE Mouse IgG1, κ Isotype Control (Cat. No. 554680; dashed line histogram) or PE Mouse Anti-Human CD177 antibody (Cat. No. 564239; solid line histogram). Erythrocytes were lysed with BD FACS Lysing Solution (Cat. No. 349202). The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact granulocytes. Flow cytometric analysis was performed using a BD™ LSR II Flow Cytometer 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 R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

**Application Notes**

**Application**
Flow cytometry Routinely Tested

**Suggested Companion Products**

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<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<td>554657</td>
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<td>PE Mouse IgG1, κ Isotype Control</td>
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<td>555899</td>
<td>Lysing Buffer</td>
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**BD Biosciences**

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Product Notices
1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use $1 \times 10^6$ 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. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at wwwbdbiosciencescom/colors.
6. Please refer to wwwbdbiosciencescom/pharminenprotocols for technical protocols.

References