Technical Data Sheet

Alexa Fluor® 647 Mouse Anti-Human CD177

Product Information

Material Number: 564238
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 glyco phosphatidylinositol (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.

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 Alexa Fluor® 647 under optimum conditions, and unreacted Alexa Fluor® 647 was removed.

Application Notes

Flow cytometry Routinely Tested

Suggested Companion Products

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<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<td>Lysing Buffer</td>
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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. The Alexa Fluor®, Pacific Blue™, and Cascade Blue® dye antibody conjugates in this product are sold under license from Molecular Probes, Inc. for research use only, excluding use in combination with microarrays, or as analyte specific reagents. The Alexa Fluor® dyes (except for Alexa Fluor® 430), Pacific Blue™ dye, and Cascade Blue® dye are covered by pending and issued patents.
6. Alexa Fluor® is a registered trademark of Molecular Probes, Inc., Eugene, OR.
7. Alexa Fluor® 647 fluorochrome emission is collected at the same instrument settings as for allophycocyanin (APC).
8. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.

**References**


