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## PE Mouse Anti-Human CD177 Monoclonal Antibody

**CLX78PE**

**Lot:**

**Size:** 100 Tests

**Clone:** MEM-166

**Isotype:** Mouse IgG1

**Specificity:** The antibody MEM-166 reacts with CD177 (Neutrophil specific antigen 1), a 60 kDa GPI-linked cell surface glycoprotein (uPAR family) expressed on granulocytes and in bone marrow early erythroblasts, megakaryocytes, promyelocytes and myelocytes.

The antibodies against CD177 can be involved in neonatal alloimmune neutropenia (NAN).

**HLDA VI; WS Code M M17**

HLDA VI; WS Code BP 309

**Immunogen:** Human granulocytes.

**Species Reactivity:** Human, Non-Human Primates

**Preparation:** The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.

**Storage Buffer:** The reagent is provided in phosphate buffered saline (PBS) containing 15 mM sodium azide and 0.2% (w/v) high-grade protease free Bovine Serum Albumin (BSA) as a stabilizing agent.

**Storage / Stability:** Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label. Short-term exposure to room temperature should not affect the quality of the reagent. However, if reagent is stored under any conditions other than those specified, the conditions must be verified by the user.

**Usage:** The reagent is designed for Flow Cytometry analysis of human blood cells using 20 µl reagent / 100 µl of whole blood or 10<sup>6</sup> cells in a suspension.

**Background:** CD177 (NB1/HNA-2a and PRV-1 form) is a GPI-anchored glycoprotein present mainly on neutrophils. Its plasma membrane expression is increased during pregnancy and inflammation or after G-CSF application. Ligand of CD177 has been identified as CD31 (PECAM-1). CD177 participates in neutrophil transmigration and seems to be also a pro-proliferative molecule. The antibodies against CD177 can be involved in neonatal alloimmune neutropenia (NAN).

*Continued...*

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**References:**

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- \*Stroncek DF, Caruccio L, Bettinotti M: CD177: A member of the Ly-6 gene superfamily involved with neutrophil proliferation and polycythemia vera. *J Transl Med.* 2004 Mar 29;2(1):8.
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*This product is made available in collaboration with Exbio Praha a.s.*

**Laboratory Reagent For Research Use Only**