

1F-314-T025

## Monoclonal Antibody to CD177 Fluorescein (FITC) conjugated (25 tests)

<b>Clone:</b>	MEM-166
<b>Isotype:</b>	Mouse IgG1
<b>Specificity:</b>	The antibody MEM-166 reacts with CD177 (Neutrophil specific antigen 1), a 60 kDa GPI-linked cell surface glycoprotein of uPAR family, expressed on granulocytes and in bone marrow early erythroblasts, megakaryocytes, promyelocytes and myelocytes. HLDA VI; WS Code M M17 HLDA VI; WS Code BP 309
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	Human granulocytes
<b>Species Reactivity:</b>	Human, Non-Human Primates
<b>Preparation:</b>	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.
<b>Storage Buffer:</b>	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
<b>Storage / Stability:</b>	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.
<b>Usage:</b>	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. The content of a vial (0.5 ml) is sufficient for 25 tests.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	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).

**For laboratory research only, not for drug, diagnostic or other use.**



**Antibodies**

**References:**

- \*Leukocyte Typing VII., Mason D. et al. (Eds.), Oxford University Press (2002).
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- \*Mnjoyan Z, Li J, Afshar-Kharghan V: Expression of polycythemia rubra vera-1 decreases the dependency of cells on growth factors for proliferation. *Haematologica.* 2005 Mar;90(3):405-6.
- \*Sachs UJ, Andrei-Selmer CL, Maniar A, Weiss T, Paddock C, Orlova VV, Choi EY, Newman PJ, Preissner KT, Chavakis T, Santoso S: The neutrophil-specific antigen CD177 is a counter-receptor for platelet endothelial cell adhesion molecule-1 (CD31). *J Biol Chem.* 2007 Aug 10;282(32):23603-12.
- \*Bauer S, Abdgawad M, Gunnarsson L, Segelmark M, Tapper H, Hellmark T: Proteinase 3 and CD177 are expressed on the plasma membrane of the same subset of neutrophils. *J Leukoc Biol.* 2007 Feb;81(2):458-64.
- \*Leukocyte Typing VI., Kishimoto T. et al. (Eds.), Garland Publishing Inc. (1997).

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