

1A-314-T025

Monoclonal Antibody to CD177 Allophycocyanin (APC) conjugated (25 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 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

Regulatory Status: RUO

Immunogen: Human granulocytes

Species Reactivity: Human, Non-Human Primates

Preparation: The purified antibody is conjugated with cross-linked Allophycocyanin (APC) 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 stabilizing phosphate buffered saline (PBS) solution

containing 15mM sodium azide.

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.

Usage: The reagent is designed for Flow Cytometry analysis of human blood cells using

10 μ l reagent / 100 μ l of whole blood or 10 $^{\circ}$ cells in a suspension.

The content of a vial (0.25 ml) is sufficient for 25 tests.

Expiration: See vial label

Lot Number: See vial label

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 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).



PRODUCT DATA SHEET

References:

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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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