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Anti-Human CD177 Purified

Catalog Number: 14-1779
Also Known As:neutrophil-specific antigen, NB1, NB-1
RUO: For Research Use Only

Product Information

Contents: Anti-Human CD177 Purified
REF Catalog Number: 14-1779
Clone: MEM-166 (MEM166)
Concentration: 0.5 mg/ml
Host/Isotype: Mouse IgG1, κ

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C.
LOT Batch Code: Refer to Vial
Use By: Refer to Vial
Caution, contains Azide

Description

The MEM-166 monoclonal antibody reacts with human CD177, a 58-64 kDa GPI-anchored glycoprotein. The human CD177 locus codes for at least two alleles, NB1 and PRV-1, which differ by only 4 amino acids. CD177 is expressed on granulocytes, early erythroblasts, megakaryocytes, promyelocytes and myelocytes. CD177 mRNA levels are elevated in several different myeloproliferative disorders including polycythemia vera, and antibodies to CD177 are involved in neonatal alloimmune neutropenia, autoimmune drug induced neutropenia, and graft failure following marrow transplantation.

Applications Reported

This MEM-166 (MEM166) antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and immunoblotting (WB) (non-reducing conditions).

Applications Tested

This MEM-166 (MEM166) antibody has been tested by flow cytometric analysis of normal human peripheral blood. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Kissel K, Santoso S, Hofmann C, Stroncek D, Bux J. Molecular basis of the neutrophil glycoprotein NB1 (CD177) involved in the pathogenesis of immune neutropenias and transfusion reactions. Eur J Immunol. 2001 May;31(5):1301-9.

Kissel K, Scheffler S, Kerowgan M, Bux J. Molecular basis of NB1 (HNA-2a, CD177) deficiency. Blood. 2002 Jun 1;99(11):4231-3.

Caruccio L, Walkovich K, Bettinotti M, Schuller R, Stroncek D. CD177 polymorphisms: correlation between high-frequency single nucleotide polymorphisms and neutrophil surface protein expression. Transfusion. 2004 Jan;44(1):77-82.

Related Products

11-4011 Anti-Mouse IgG FITC
11-4317 Streptavidin FITC
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14-4714 Mouse IgG1 K Isotype Control Purified
17-4317 Streptavidin APC

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