

Monoclonal Antibody to CD177 - FITC

Alternate names:	HNA-2a, HNA2a, Human neutrophil alloantigen 2a, NB1, NB1 glycoprotein, PRV1, Polycythemia rubra vera protein 1
Catalog No.:	SM2003F
Quantity:	0.1 mg
Concentration:	0.1 mg/ml
Background:	Cd177 (NP1), a glycosyl phosphatidylinositol (GPI) linked N glycosylated cell surface glycoprotein, was first described in a case of neonatal alloimmune neutropenia and analyses showed cell surface expression of a 60 kDa protein, 14 kDa greater than the predicted size, probably due to the presence of 3 potential N glycosylation sites. Immunohistochemistry demonstrated expression in bone marrow early erythroblasts, megakaryocytes, promyelocytes, and myelocytes. The neutrophil NB1 antigen (CD177) is expressed by 97% of the caucasian population. Antibodies against NB1 can be involved in neonatal alloimmune neutropenia (NAN).
Uniprot ID:	Q8N6Q3
NCBI:	NP_065139.2
GeneID:	57126
Host / Isotype:	Mouse / IgG1
Clone:	MEM-166
Format:	State: Liquid, purified immunoglobulin fraction Purification: Protein G affinity chromatography Buffer System: PBS with 0.09% sodium azide as preservative and 1% BSA as stabilizer Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow cytometry (use 10 µl of neat - 1/10 diluted antibody to label 10e6 cells in 100 µl). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises human CD177 (neutrophil glycoprotein NB1). The neutrophil NB1 antigen is expressed by 97% of the caucasian population. Antibodies against NB1 can be involved in neonatal alloimmune neutropenia (NAN). Antibody reactivity and working conditions may vary between species. Species: Human and Rhesus monkey Other species not tested.
Storage:	Store the antibody at 4°C for one month or at -20°C for longer. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

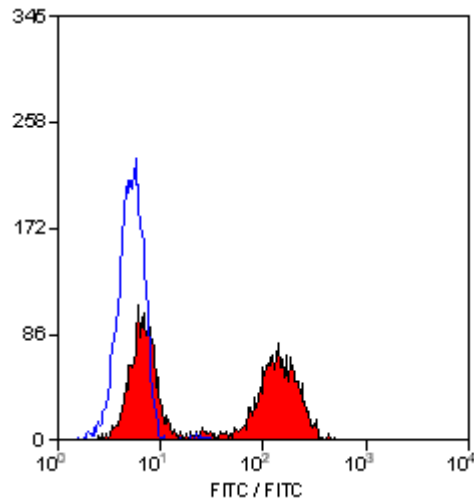
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Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

General References: 1. Caruccio, L. et al. (2003). Expression of human neutrophil antigen-2a (NB1) is increased in pregnancy. *Transfusion*. 43 357 - 363.
2. Kissel, K. et al. (2002). Molecular basis of NB1 (HNA-29, CD177) deficiency. *Blood*. 99: 4231 - 4233.

Pictures:



Staining of human peripheral blood granulocytes with MOUSE ANTI HUMAN CD177:FITC (SM2003F)

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