

Datasheet: MCA2045APC

Description:	MOUSE ANTI HUMAN CD177:APC
Specificity:	CD177
Format:	APC
Product Type:	Monoclonal Antibody
Clone:	MEM-166
Isotype:	IgG1
Quantity:	100 TESTS

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	■			Neat

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human		
Species Cross Reactivity	Reacts with: Rhesus Monkey N.B. Antibody reactivity and working conditions may vary between species.		
Product Form	Purified IgG conjugated to Allophycocyanin (APC) - lyophilised		
Reconstitution	Reconstitute with 1ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	APC	650	661
Preparation	Purified IgG prepared by affinity chromatography on Protein A		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide		
Stabilisers	1%	Bovine Serum Albumin	
	5%	Sucrose	
Approx. Protein Concentrations	IgG concentration 0.1mg/ml		
Immunogen	Human granulocytes.		

**External Database
Links**

UniProt:

[Q8N6Q3](#)

[Related reagents](#)

Entrez Gene:

[57126](#)

CD177

[Related reagents](#)

Synonyms

NB1, PRV1

Specificity

Mouse anti Human CD177 antibody, clone MEM-166 recognizes 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).

Flow Cytometry

Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

References

1. Caruccio, L. *et al.* (2003) Expression of human neutrophil antigen-2a (NB1) is increased in pregnancy. [Transfusion. 43 \(3\): 357-63.](#)
2. Kissel, K. *et al.* (2002) Molecular basis of NB1 (HNA-2a, CD177) deficiency. [Blood. 99 \(11\): 4231-3.](#)
3. Jerke, U. *et al.* (2011) Complement receptor Mac-1 is an adaptor for NB1 (CD177)-mediated PR3-ANCA neutrophil activation. [J Biol Chem. 286 \(9\): 7070-81.](#)
4. Dillon, M. *et al.* (2008) Expression of the GPI-anchored receptor Prv-1 enhances thrombopoietin and IL-3-induced proliferation in hematopoietic cell lines. [Leuk Res. 32: 811-9.](#)
5. Gabillet, J. *et al.* (2012) Proteinase 3, the autoantigen in granulomatosis with polyangiitis, associates with calreticulin on apoptotic neutrophils, impairs macrophage phagocytosis, and promotes inflammation. [J Immunol. 189: 2574-83.](#)
6. Drewniak, A. *et al.* (2008) Granulocyte concentrates: prolonged functional capacity during storage in the presence of phenotypic changes. [Haematologica. 93:1058-67.](#)
7. Drewniak, A. *et al.* (2009) Changes in gene expression of granulocytes during in vivo granulocyte colony-stimulating factor/dexamethasone mobilization for transfusion purposes. [Blood. 113: 5979-98.](#)
8. Sachs, U.J. *et al.* (2007) The neutrophil-specific antigen CD177 is a counter-receptor for platelet endothelial cell adhesion molecule-1 (CD31). [J Biol Chem. 282: 23603-12.](#)
9. Johansson, Å.C. *et al.* (2016) Impaired phagocytosis and reactive oxygen species production in phagocytes is associated with systemic vasculitis. [Arthritis Res Ther. 18 \(1\): 92.](#)
10. Nishimura, M. *et al.* (2007) Detection of anti-CD32 alloantibody in donor plasma implicated in development of transfusion-related acute lung injury. [Cell Biochem Funct. 25 \(2\): 179-83.](#)
11. Pliyev, B.K. & Menshikov, M. (2012) Comparative evaluation of the role of the adhesion molecule CD177 in neutrophil interactions with platelets and endothelium. [Eur J Haematol. 89 \(3\): 236-44.](#)
12. Onodera, R. *et al.* (2017) Anti-human neutrophil antigen-1a, -1b, and -2 antibodies in neonates and children with immune neutropenias analyzed by extracted granulocyte antigen immunofluorescence assay. [Transfusion. Aug 20 \[Epub ahead of print\].](#)

Storage

Prior to reconstitution store at +4°C.

After reconstitution store at +4°C.

DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of reconstitution.

Health And Safety

Material Safety Datasheet documentation #10075 available at:

Information 10075: <https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:APC \(MCA928APC\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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