APC/Cyanine7 anti-human CD177 Antibody

Catalog# / Size	315809 / 25 tests 315810 / 100 tests
Clone	MEM-166
Regulatory Status	RUO
Workshop	HCDM listed
Other Names	Neutrophil specific antigen 1, NB1, polycythemia rubra vera 1
Isotype	Mouse IgG1, κ
Description	CD177 is also known as neutrophil specific antigen 1, NB1, and polycythemia rubra vera 1. It is a member of the uPAR family and is a GPI-linked cell surface glycoprotein with a molecular weight of 60 kD. CD177 is expressed on granulocytes and bone marrow progenitors (early erythroblasts, megakaryocytes). It is thought to be involved in allogeneic and autoimmune responses to neutrophils.

Product Details

Verified Reactivity	Human, Cynomolgus, Rhesus
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Human granulocytes
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with APC/Cyanine7 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. **Do not freeze.**
Application	FC - *Quality tested*
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.
Excitation Laser	Red Laser (633 nm)
Application Notes	Additional reported applications (for the relevant formats) include: immunoprecipitation, Western blotting[5], and immunofluorescence[4].
Additional Product Notes	BioLegend is in the process of converting the name APC/Cy7 to APC/Cyanine7. The dye molecule remains the same, so you should expect the same quality and performance from our APC/Cyanine7 products. Please contact Technical Service if you have any questions.

Application References

(PubMed link indicates BioLegend citation)

1. Leucocyte Typing VII. Mason D, *et al.* Eds, 2002 Oxford University Press.
2. von Vietinghoff S, *et al.* 2007. *Blood* 109:4487. PubMed
3. Korkmaz B, *et al.* 2008. *J. Biol. Chem.* 283:35976. PubMed
4. von Vietinghoff S, *et al.* 2007. *Blood* 109:4487. (IF)
5. Jankowska AM, *et al.* 2011. *Haematologica*. 96:954. (WB)

Product Citations

1. Saha R, *et al.* 2021. Sci Rep. 11:18849. PubMed

RRID AB_2750078 (BioLegend Cat. No. 315809)

Antigen Details

Structure	uPAR family, GPI-linked cell surface glycoprotein, 60 kD
Distribution	Granulocytes, bone marrow progenitors (early erythroblasts, megakaryocytes)
Function	Antigen involved in neutrophil allo- and autoimmunity, function unknown
Modification	Glycosylated
Cell Type	Granulocytes, Hematopoietic stem and progenitors, Neutrophils
Biology Area	Immunology
Molecular Family	CD Molecules
Antigen References	1. Leukocyte Typing VII. Mason D, *et al.* (Eds.) Oxford University Press (2002) 2. Kissel K, *et al.* 2001. *Eur. J. Immunol.* 31:1301. 3. Lalezari P, *et al.* 1971. *J. Clin. Invest.* 50:1108. 4. Temerinac S, *et al.* 2000. *Blood* 95:2569.
Gene ID	57126

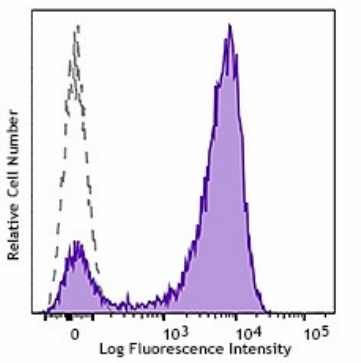
Related Protocols

Cell Surface Flow Cytometry Staining Protocol

Other Formats

Purified anti-human CD177, FITC anti-human CD177, PE anti-human CD177, APC anti-human CD177, APC/Cyanine7 anti-human CD177, TotalSeq™-A0382 anti-human CD177

Product Data



Human peripheral blood granulocytes were stained with CD177 (clone MEM-166) APC/Cyanine7 (filled histogram) or Mouse IgG1, ? APC/Cyanine7 isotype control (open histogram).

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