Brilliant Violet 421™ anti-human CD177 Antibody

Catalog# / Size	315817 / 25 tests 315818 / 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 Brilliant Violet 421™ under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
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. It is recommended that the reagent be titrated for optimal performance for each application. Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd. Learn more about Brilliant Violet™. This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.
Excitation Laser	Violet Laser (405 nm)
Application Notes	Additional reported applications (for the relevant formats) include: immunoprecipitation, Western blotting[5], and immunofluorescence[4].

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)
RRID	AB_3683332 (BioLegend Cat. No. 315817) AB_3683332 (BioLegend Cat. No. 315818)

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

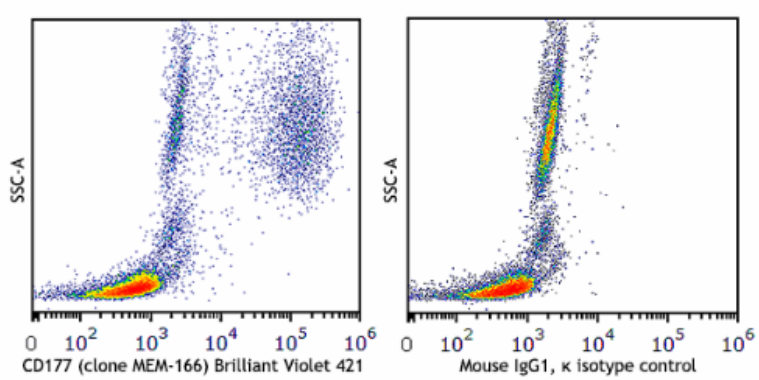
Related Protocols

- Cell Surface Flow Cytometry Staining Protocol

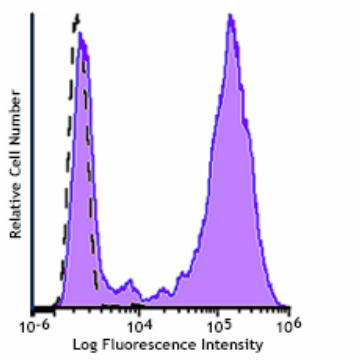
Other Formats

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, TotalSeq™-C0382 anti-human CD177, TotalSeq™-B0382 anti-human CD177, Brilliant Violet 421™ anti-human CD177 Antibody

Product Data



Human peripheral blood cells were stained with anti-human CD177 (clone MEM-166) Brilliant Violet 421™ (left) or mouse IgG1, κ Brilliant Violet 421™ isotype control (right).



Human peripheral blood granulocytes were stained with anti-human CD177 (clone MEM-166) Brilliant Violet 421™ (filled histogram) or mouse IgG1, κ Brilliant Violet 421™ isotype control (open histogram).

8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587