

**Brilliant Violet 510™ anti-human CD33**

**Catalog # / Size:** 2433045 / 25 tests  
2433050 / 100 tests

**Clone:** P67.6

**Isotype:** Mouse IgG1, κ

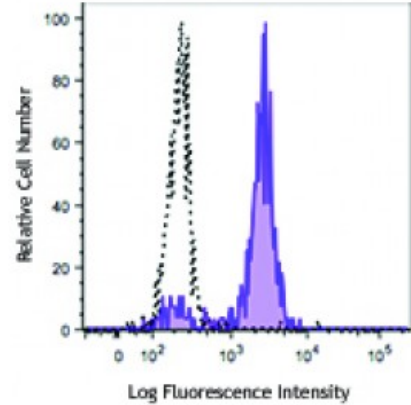
**Immunogen:** FMY9S5 cells expressing CD33 gene.

**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 510™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 510™ and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

**Concentration:** Lot-specific



Human peripheral blood monocytes were stained with CD33 (clone P67.6) Brilliant Violet 510™ (filled histogram) or mouse IgG1, κ Brilliant Violet 510™ (open histogram).

**Applications:**

**Applications:** Flow Cytometry

**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 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 510™ excites at 405 nm and emits at 510 nm. The bandpass filter 510/50 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. **Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel.** Refer to your instrument manual or manufacturer for support. Brilliant Violet 510™ is a trademark of Sirigen Group Ltd.

**Application References:** 1. Hoyer J, *et al.* 2008. *Am. J. Clin. Pathol.* 129:316.

**Description:** CD33, also known as Siglec-3, gp67, and p67, is a 67 kD type I transmembrane glycoprotein. It is a sialoadhesion immunoglobulin superfamily member, which is expressed on myeloid progenitors, monocytes, granulocytes, dendritic cells, and mast cells. CD33 is absent on normal platelets, lymphocytes, erythrocytes, and hematopoietic stem cells. CD33 functions as a sialic acid-dependent cell adhesion molecule with carbohydrate/lectin binding activity.

**Antigen References:** 1. Favaloro E, *et al.* 1988. *Br. J. Haematol.* 69:163.  
2. Freeman S, *et al.* 1995. *Blood* 85:2005.