

APC/Cyanine7 anti-human CD33

Catalog # / 2117210 / 100 tests

Size: 2117205 / 25 tests

Clone: WM53

Isotype: Mouse IgG1, κ

Immunogen: Human myeloid leukaemia cells.

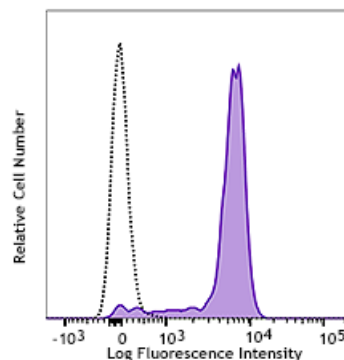
Reactivity: Human, Other

Preparation: The antibody was purified by affinity chromatography and conjugated with APC/Cyanine7 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA)

Workshop Number: IV M-505

Concentration: Lot-specific



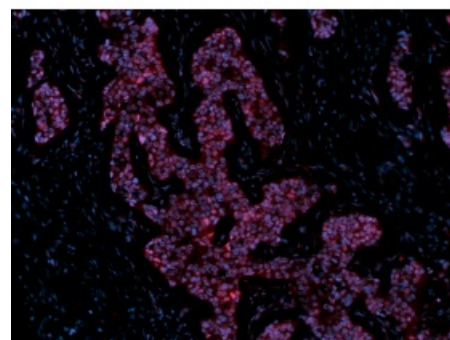
Human peripheral blood monocytes were stained with anti-human CD33 (clone WM53) APC/Cyanine7 (filled histogram), or mouse IgG1, κ APC/Cyanine7 isotype control (open histogram).

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 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: immunoprecipitation, Western blotting³, induction of cytokine production³, and immunofluorescence⁴.



Formalin-fixed paraffin-embedded human breast cancer tissue slices were deparaffinized and rehydrated. Antigen retrieval was done with Tris-Buffered Saline 1X (1.0 M, pH 7.4) at 95°C for 40 minutes, washed with PBS/0.05% Tween 20 twice for five minutes, permeabilized with 0.5% Triton X-100 for ten minutes, and blocked with 5% FBS and 0.2% gelatin for 30 minutes. Then, the slices were stained with 5 μ g/mL anti-EGFR (clone A19002A) Alexa Fluor® 647 (red) at 4°C overnight. Nuclei were counterstained with DAPI (green). The image was captured with a 10X objective.

**Application
References:**

1. Knapp W, et al. 1989. Leucocyte Typing IV. Oxford University Press. New York.
2. Favaloro E, et al. 1988. *Br. J. Haematol.* 69:163.
3. Garnache-Ottou F, et al. 2005. *Blood* 105:1256. (WB)
4. Perez-Oliva AB, et al. 2011. *Glycobiology.* 21:757. (epitope, FC, IF)

Description:

CD33 is a 67 kD type I transmembrane glycoprotein also known as Siglec-3, gp67, and p67. It is a sialoadhesion immunoglobulin superfamily member 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.