

**Brilliant Violet 785™ anti-human CD24**

**Catalog # / Size:** 2155705 / 25 tests  
2155710 / 100 tests

**Clone:** ML5

**Isotype:** Mouse IgG2a, κ

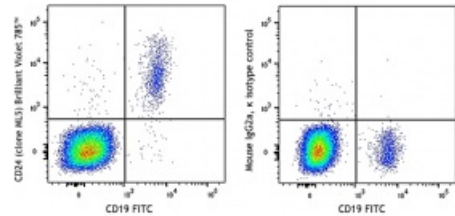
**Reactivity:** Human, Non-human primate

**Preparation:** The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 785™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 785™ and unconjugated antibody.

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

**Workshop Number:** V CD24.5

**Concentration:** Lot-specific



Human peripheral blood lymphocytes stained with CD19 FITC and CD24 (clone ML5) Brilliant Violet 785™ (left) or Mouse IgG2a, κ Brilliant Violet 785™ isotype control (right).

**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 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.

Brilliant Violet 785™ excites at 405 nm and emits at 785 nm. The bandpass filter 780/60 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 785™ is a trademark of Sirigen Group Ltd.

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**Application Notes:** Additional reported applications (for the relevant formats) include: immunofluorescence microscopy<sup>3</sup>.

- Application References:**
- Schlossman S, et al. Eds. 1995. Leukocyte Typing V:White Cell Differentiation Antigens. Oxford University Press. New York.
  - McMichael A, et al. 1987. Leucocyte Typing III. Oxford University Press. New York.
  - Yang GP, et al. 1999. *Nucleic Acids Research* 27:1517. (IF)
  - Kristiansen G, et al. 2003. *Clin. Cancer Res.* 9:4906. (FC)

**Description:** CD24 is a 35-45 kD glycosylphosphatidylinositol (GPI)-linked protein also known as heat stable antigen (HSA), BA-1, Ly-52, and nectadrin. It is expressed on the surface of B cells (but not plasma cells), granulocytes, follicular dendritic cells, and epithelial cells. CD24 may play a role in the regulation of B-cell proliferation and maturation. CD24 crosslinking induces a  $\text{Ca}^{2+}$  flux in mature B cells. CD24 has been shown to interact with CD62P (P-selectin).

**Antigen**  
**References:** 1. Schlossman S, *et al.* Eds. 1995. Leukocyte Typing V. Oxford University Press. New York.