

Brilliant Violet 650™ anti-human CD71

Catalog # / Size: 2270580 / 100 tests
2270575 / 25 tests

Clone: CY1G4

Isotype: Mouse IgG2a, κ

Immunogen: NALM-6 pre-B cell line

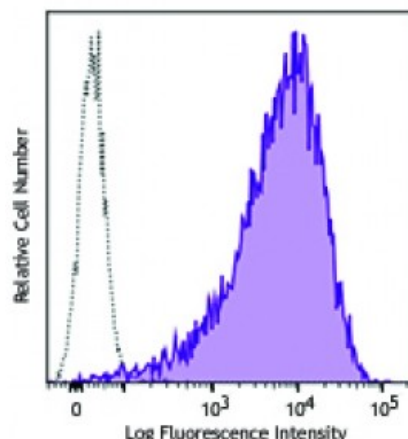
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 650™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 650™ and unconjugated antibody.

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

Workshop Number: A015

Concentration: Lot-specific



PHA-stimulated (3 days) human peripheral blood lymphocytes were stained with CD71 (clone CY1G4) Brilliant Violet 650™ (filled histogram) or mouse IgG2a, κ Brilliant Violet 650™ 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 ≤ 0.25 microL per million cells or 0.25 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 650™ excites at 405 nm and emits at 645 nm. The bandpass filter 660/20 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 650™ is a trademark of Sirigen Group Ltd.

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

Description: CD71 is a 95 kD type II homodimeric transmembrane glycoprotein also known as T9 and transferrin receptor. It is expressed on proliferating cells, reticulocytes, and erythroid precursors. CD71 plays a role in the control of cellular proliferation by facilitating the uptake of iron via ferrotransferrin binding and the recycling of

apotransferrin to the cell surface.

- Antigen** 1. Hentze M, *et al.* 1996. *P. Natl. Acad. Sci. USA* 93:8175.
- References:** 2. Trowbridge I, *et al.* 1993. *Annu. Rev. Cell Biol.* 9:129.