

Brilliant Violet 605™ anti-human CD25

Catalog # / 2380705 / 25 tests
Size: 2380710 / 100 tests

Clone: M-A251

Isotype: Mouse IgG1, κ

Immunogen: Human PHA-induced lymphocyte cells

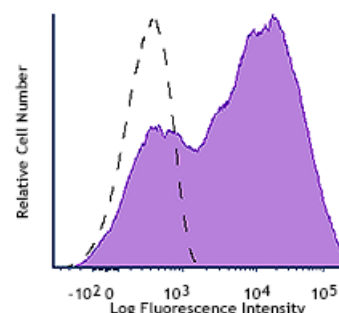
Reactivity: Human, Non-human primate, Other

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 605™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 605™ and unconjugated antibody.

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

Workshop Number: IV A053

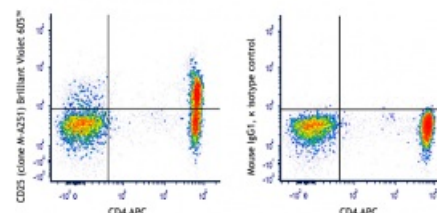
Concentration: Lot-specific



PHA-stimulated (3 days) human peripheral blood lymphocytes were stained with CD25 (clone M-A251) Brilliant Violet 605™ (filled histogram) or mouse IgG1, κ Brilliant Violet 605™ isotype control (open histogram).

Applications:

Applications: Flow Cytometry



Human peripheral blood lymphocytes were stained with CD4 APC and CD25 (clone M-A251) Brilliant Violet 605™ (left) or Mouse IgG1, κ Brilliant Violet 605™ isotype control (right).

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 605™ excites at 405 nm and emits at 603 nm. The bandpass filter 610/20 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 605™ is a trademark of Sirigen Group Ltd.

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Application Notes: Additional reported applications (for the relevant formats) include: immunohistochemical staining of paraformaldehyde fixed frozen sections.¹

The CD25 molecule reveals three epitope regions: A, B, and C. M-A251 antibody recognizes epitope region B. Unlike other CD25 antibody clones, M-A251 can detect CD25 after fixation with paraformaldehyde.

Application References: 1. Li H and Pauza CD. 2015. *Eur. J. Immunol.* 45:298. (IHC)

Description: CD25 is a 55 kD type I transmembrane glycoprotein also known as low affinity IL-2 receptor α chain or Tac. It is expressed on progenitor lymphocytes, activated T and B cells, and activated monocytes/macrophages. CD25 is also expressed on a subset of non-stimulated CD4⁺ T cells termed T regulatory cells. Soluble CD25/IL-2R α is produced as a consequence of lymphocyte stimulation and is found in biological fluids following inflammatory responses. CD25 associates with IL-2 receptor β (CD122) and common γ (CD132) chains to form a high affinity IL-2R complex.

- Antigen**
- References:**
1. Knapp W, *et al.* 1989. Leucocyte Typing IV: White Cell Differentiation Antigens. Oxford University Press.
 2. Schlossman S, *et al.* 1995. Leucocyte Typing V: White Cell Differentiation Antigens. Oxford University Press.
 3. Barclay N, *et al.* 1997. The Leukocyte Antigen FactsBook. Academic Press Inc.
 4. Taniguchi T and Minami Y. *et al.* 1993. *Cell* 73:5.
 5. Waldmann T. 1991. *J. Biol. Chem.* 266:2681.