SONY

Product Data Sheet

Brilliant Violet 785™ anti-human CD25

Catalog # / Size: 2380700 / 100 tests
2380695 / 25 tests

Clone: M-A251

Isotype: Mouse IgG1, κ

Immunogen: Human PHA-induced lymphocyte cells

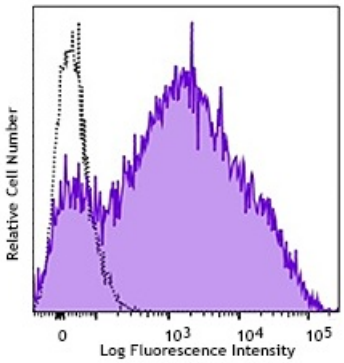
Reactivity: Human, Non-human primate, Other

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 785™ under optimal conditions.

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 785™ (filled histogram) or Mouse IgG1, κ Brilliant Violet 785™ 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 µl per million cells or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

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: 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)

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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-2Rα 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.

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