SONY

Product Data Sheet

APC/Cyanine7 anti-human CD25

Catalog # / Size: 2380610 / 100 tests
2380605 / 25 tests

Clone: M-A251

Isotype: Mouse IgG1, κ

Immunogen: Human PHA-induced lymphocyte cells

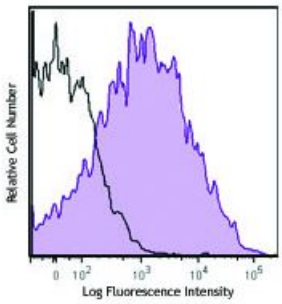
Reactivity: Human, Non-human primate, Other

Preparation: The antibody was purified by affinity chromatography and conjugated with APC/Cyanine7 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) APC/Cy7 (filled histogram) or mouse IgG1, κAPC/Cy7 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.

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-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.

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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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