

**Biotin anti-human CD25**

**Catalog # / Size:** 2380620 / 100 µg  
2380615 / 25 µg

**Clone:** M-A251

**Isotype:** Mouse IgG1, κ

**Immunogen:** Human PHA-induced lymphocyte cells

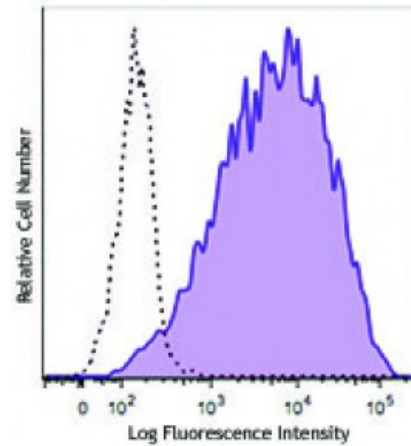
**Reactivity:** Human

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

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Workshop Number:** IV A053

**Concentration:** 0.5



PHA-stimulated (3 days) human peripheral blood lymphocytes were stained with biotinylated CD25 (clone M-A251, filled histogram) or mouse IgG1, κ isotype control (open histogram), followed by Sav-PE.

**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 ≤0.5 microg per million cells in 100 microL volume. 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.<sup>1</sup>

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<sup>+</sup> 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.

