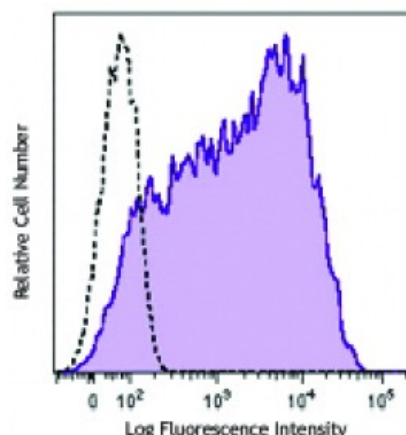


**FITC anti-human CD25**

<b>Catalog # / Size:</b>	2380530 / 100 tests 2380525 / 25 tests
<b>Clone:</b>	M-A251
<b>Isotype:</b>	Mouse IgG1, $\kappa$
<b>Immunogen:</b>	Human PHA-induced lymphocyte cells
<b>Reactivity:</b>	Human
<b>Preparation:</b>	The antibody was purified by affinity chromatography and conjugated with FITC under optimal conditions. The solution is free of unconjugated FITC and unconjugated antibody.
<b>Formulation:</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
<b>Workshop Number:</b>	IV A053
<b>Concentration:</b>	Lot-specific



PHA-stimulated (3 day) human peripheral blood lymphocytes were stained with CD25 (clone M-A251) FITC (filled histogram) or mouse IgG1,  $\kappa$  FITC 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 microL per million cells or 5 microL per 100 microL 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.<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  $\alpha$  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-2R $\alpha$  is produced as a consequence of lymphocyte stimulation and is found in biological fluids following inflammatory responses. CD25 associates with IL-2 receptor  $\beta$  (CD122) and common  $\gamma$  (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.

