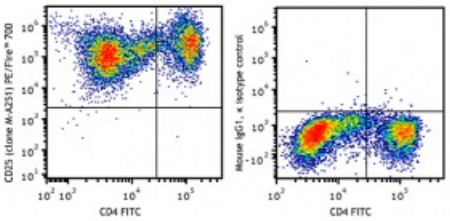
SONY

Product Data Sheet

PE/Fire™ 700 anti-human CD25

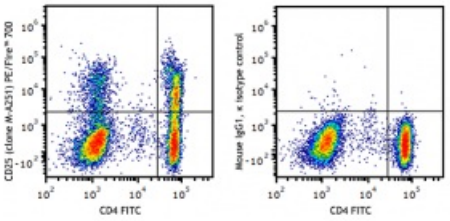
Catalog # / Size:	2380730 / 100 tests 2380725 / 25 tests
Clone:	M-A251
Isotype:	Mouse IgG1, κ
Immunogen:	Human PHA-induced lymphocyte cells
Reactivity:	Human, Non-human primate, Other
Preparation:	The antibody was purified by affinity chromatography and conjugated with PE/Fire™ 700 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA)
Workshop Number:	IV A053
Concentration:	Lot-specific



PHA-stimulated (3 days) human peripheral blood lymphocytes were stained with anti-human CD4 FITC and anti-human CD25 PE/Fire™ 700 (clone M-A251) (left), or mouse IgG1, κ isotype control (right).

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 in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. * PE/Fire™ 700 has a maximum excitation of 565 nm and a maximum emission of 695 nm.
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.



Human peripheral blood lymphocytes were stained with anti-human CD4 FITC and anti-human CD25 PE/Fire™ 700 (clone M-A251) (left), or mouse IgG1, κ isotype control (right).

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.

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.