

## Anti-Human CD8a FITC

Catalogue Number : 10131-50

RUO: For Research Use Only. Not for use in diagnostic procedures.

### Product Information

**Clone:** RPA-T8

**Format/Conjugate:** FITC

**Concentration:** 5  $\mu$ L (1  $\mu$ g)/test

**Reactivity:** Human

**Laser:** Blue (488nm)

**Peak Emission:** 520nm

**Peak Excitation:** 494nm

**Filter:** 530/30

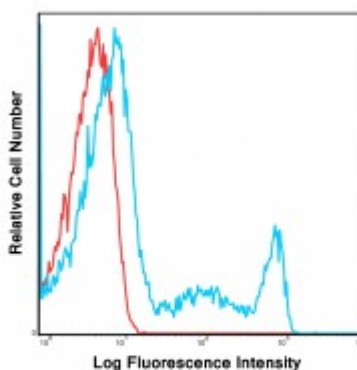
**Brightness (1=dim,5=brightest):** 3

**Isotype:** Mouse IgG1, kappa

**Formulation:** Phosphate-buffered aqueous solution,  $\leq$ 0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.

**Storage:** Product should be kept at 2-8°C and protected from prolonged exposure to light.

**Applications:** FC



Human peripheral blood lymphocytes were stained with FITC RPA-T8 with relevant isotype control in Red.

### Description

The RPA-T8 monoclonal antibody specifically reacts with the human CD8a molecule, a 32 kDa cell surface receptor expressed either as a heterodimer (CD8  $\alpha/\beta$ ) or as a homodimer (CD8  $\alpha/\alpha$ ) on the majority of thymocytes, a subpopulation of mature T cells, and natural killer cells. CD8 interacts with the major histocompatibility complex class I (MHC class I) molecules on antigen-presenting cells or epithelial cells. The RPA-T8 antibody reacts with 13-48% of peripheral lymphocytes, 80% of thymocytes, and a subset of natural killer cells.

RPA-T8, OKT8, and HIT8a antibodies do not compete with each other for binding to peripheral leukocytes, meaning that they do not recognize the same epitope or block each other by steric hindrance.

### Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

### Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. The antibody can be used at less than or equal to 5  $\mu$ L per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100  $\mu$ L.

### References

- Knapp W;(1989) Leucocyte typing IV: white cell differentiation antigens. Oxford University Press, 1989.
- Schlossman, S., L. Bloumsell, et al. eds (1995). Leucocyte Typing V: White Cell Differentiation Antigens. Oxford University Press. New York