# CD8 FITC Monoclonal Antibody (Clone OKT-8)

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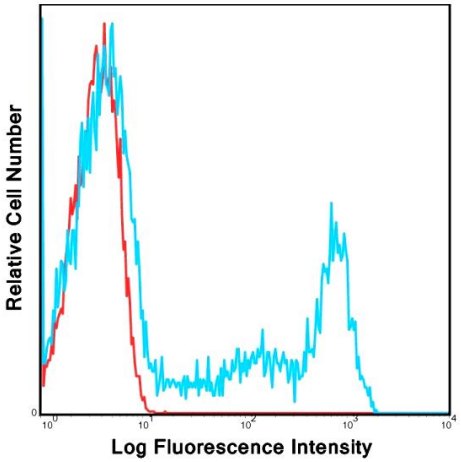
| **CATALOG #:** | 6954-25<br>6954-100 | 25 tests<br>100 tests |
| **ALTERNATE NAMES:** | CD8. | |
| **HOST:** | Mouse | |
| **ISOTYPE:** | IgG2a, Kappa | |
| **PURIFICATION:** | Affinity chromatography. Unreacted dye removed from the product. | |
| **IMMUNOGEN:** | Human CD8 | |
| **FORM:** | Liquid | |
| **FORMULATION:** | Phosphate-buffered aqueous solution pH 7.2, ≤0.09% Sodium azide, may contain carrier protein/stabilizer. | |
| **SPECIES REACTIVITY:** | Human | |
| **STORAGE CONDITIONS:** | Product should be kept at 2-8°C and protected from prolonged exposure to light. **Do not freeze.** | |

**DESCRIPTION**: CD8 is a cell surface glycoprotein expressing on thymocytes subsets and cytotoxic T cells and is either a homodimer of two alpha chains, or a heterodimer of one alpha and one beta chain. It acts as a co-receptor during T cell activation through the binding of MHC Class I molecules and is found on T lymphocytes that mediates efficient cell-cell interactions within the immune system. CD8 associates with LCK with the help of a zinc clasp structure and down-regulates the production of major Th2-type cytokines. CD8 is also known to recruit pUL97 thereby inducing dissolution of the nuclear lamina and facilitating the nuclear export of viral capsids. The OKT8 monoclonal antibody specifically reacts with human CD8α molecule, a type I transmembrane glycoprotein of 32-34 kDa. CD8α is a member of the Ig superfamily, expressed as a homodimer (CD8αα) or as a heterodimer (CD8αβ). CD8+ αβ T lymphocytes express both CD8αα and CD8αβ, while some T lymphocytes and the natural killer cells express only the homodimers. CD8 binds to MHC class I and influences the development and the activation of T lymphocytes. OKT8, RPA-T8, and HIT8a antibodies do not compete with each other for binding to peripheral leukocytes, meaning that that they do not recognize the same epitope or block each other by steric hindrance.

**APPLICATION:** Flow (Cell Surface): 5 µl/1x10^6 cells, Volume per test: 5 µl (0.125 µg).

**Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.**




**Laser:** Blue (488nm)
**Peak Emission:** 520nm
**Peak Excitation:** 494nm
**Filter:** 530/30
**Brightness (1=dim, 5=brightest):** 3

Human peripheral blood lymphocytes were stained with FITC OKT8 with relevant isotype control in Red.

**RELATED PRODUCTS:**

- CD-14 Antibody (Clone biG 10) **(Cat. No. 3676-100)**
- CD40 Antibody **(Cat. No. 3072-100)**
- CD40L Antibody (Clone 2A12A7) **(Cat. No. 5015-100)**
- CD-14, human recombinant **(Cat. No. 4937-10)**
- CD-14, mouse recombinant **(Cat. No. 4938-10)**
- CD40Ligand/TRAP, human recombinant **(Cat. No. 4014-10, -50, -1000)**
- CD40Ligand/TRAP, murine recombinant **(Cat. No. 4015-10, -50, -1000)**

***FOR RESEARCH USE ONLY! Not to be used on humans.***