

Anti-Human CD8a PE

Catalogue Number : 10121-60

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

Product Information

Clone: OKT8

Format/Conjugate: PE

Concentration: 5 uL (0.06 ug)/test

Reactivity: Human

Laser: Blue (488nm), Yellow/Green (532-561nm)

Peak Emission: 578nm

Peak Excitation: 496nm

Filter: 585/40

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

Isotype: MouseIgG2a

Formulation: Phosphate-buffered aqueous solution, ≤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

Description

The OKT8 monoclonal antibody specifically reacts with human CD8 α molecule, a tyPEI transmembrane glycoprotein of 32-34 kDa. CD8 α is a member of the Ig superfamily, expressed as a homodimer (CD8 $\alpha\alpha$) or as a heterodimer (CD8 $\alpha\beta$). CD8+ $\alpha\beta$ T lymphocytes express both CD8 $\alpha\alpha$ and CD8 $\alpha\beta$, 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 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 μ L per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 μ L.

References

1. Sayos, J., Wu, C., Morra, M., Wang, N., Zhang, X., Allen, D., ... ; Terhorst, C. (1998). The X-linked lymphoproliferative-disease gene product SAP regulates signals induced through the co-receptor SLAM. *Nature*, 395(6701), 462-469.
2. Thomas, Y., Sosman, J., Irigoyen, O., Friedman, S. M., Kung, P. C., Goldstein, G., ; Chess, L. (1980). Functional analysis of human T cell subsets defined by monoclonal antibodies. I. Collaborative T-T interactions in the immunoregulation of B cell differentiation. *The Journal of Immunology*, 125(6), 2402-2408.
3. Campanelli, R., Palermo, B., Garbelli, S., Mantovani, S., Lucchi, P., Necker, A., ... ; Giachino, C. (2002). Human CD8 co-receptor is strictly involved in MHC-peptide tetramer-TCR binding and T cell activation. *International immunology*, 14(1), 39-44.