full spectrum cell analysis®
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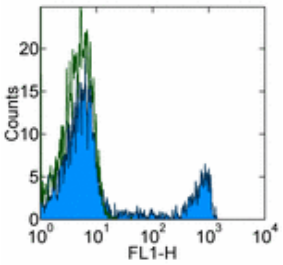
Anti-Human CD8a Purified

Catalog Number: 14-0086
Also Known As:CD8 alpha, leu-2a
RUO: For Research Use Only



Staining of normal human peripheral blood cells with Mouse IgG2a K Isotype Control Purified (cat. 14-4724) (open histogram) or 0.125 µg of Anti0Human CD8 Purified (filled histogram) followed by Anti-Mouse IgG FITC (cat. 11-4011). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human CD8a Purified
REF Catalog Number: 14-0086
Clone: OKT8 (OKT-8)
Concentration: 0.5 mg/ml
Host/Isotype: Mouse IgG2a

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C.
LOT Batch Code: Refer to Vial
Use By: Refer to Vial
Caution, contains Azide

Description

The OKT8 monoclonal antibody reacts with the human CD8a molecule, an approximately 32-34 kDa cell surface receptor expressed either as a heterodimer with the CD8 β chain (CD8 αβ) or as a homodimer (CD8 αα). A majority of thymocytes and a subpopulation of mature T cells and NK cells express CD8a. CD8 binds to MHC class I and through its association with protein tyrosine kinase p56lck plays a role in T-cell development and activation of mature T cells. Preliminary testing indicates that OKT8 and two other mouse anti-human CD8 antibodies (clone RPA-T8, Cat. No.14-0088 and clone HIT8a, Cat. No.14-0089) do not compete with each other for binding to human peripheral blood leukocytes by flow cytometric analysis, suggesting that they do not bind to similar epitopes or block each other by steric hindrance.

Applications Reported

The OKT8 (OKT-8) antibody has been reported for use in flow cytometric analysis.

Applications Tested

This OKT8 (OKT-8) antibody has been tested by flow cytometric analysis of human peripheral blood leukocytes. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Kay HD, Horwitz DA. 1980. Evidence by reactivity with hybridoma antibodies for a probable myeloid origin of peripheral blood cells active in natural cytotoxicity and antibody-dependent cell-mediated cytotoxicity. J Clin Invest. 66(4):847-51.

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Thomas Y, Sosman J, Irigoyen O, Friedman SM, Kung PC, 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. J Immunol. 125(6):2402-8.

Campanelli R, Palermo B, Garbelli S, Mantovani S, Lucchi P, Necker A, Lantelme E, Giachino C. 2002. Human CD8 co-receptor is strictly involved in MHC-peptide tetramer-TCR binding and T cell activation. Int Immunol. 14(1):39-44.

Related Products

11-4011 Anti-Mouse IgG FITC
11-4317 Streptavidin FITC

12-4317 Streptavidin PE
13-4013 Anti-Mouse IgG Biotin (Polyclonal)
14-4724 Mouse IgG2a K Isotype Control Purified
17-4317 Streptavidin APC

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