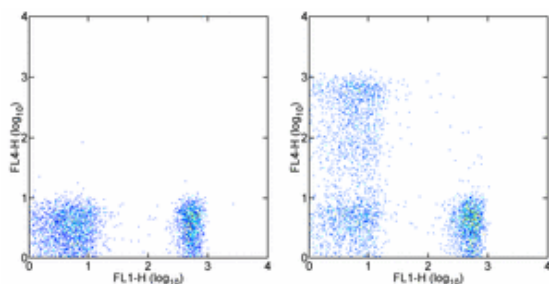


## Anti-Human CD8a Alexa Fluor<sup>®</sup> 700

Catalog Number: 56-0086

Also Known As: CD8 alpha, leu-2a

RUO: For Research Use Only



Staining of normal human peripheral blood cells with Anti-Human CD4 FITC (cat. 11-0048) and Mouse IgG2a  $\kappa$  Isotype Control Alexa Fluor<sup>®</sup> 700 (cat. 56-4724) (left) or Anti-Human CD8a Alexa Fluor<sup>®</sup> 700 (right). Cells in the lymphocyte gate were used for analysis.

### Product Information

Contents: Anti-Human CD8a Alexa Fluor<sup>®</sup> 700


**REF** Catalog Number: 56-0086

Clone: OKT8 (OKT-8)

Concentration:  $\mu$ g size: 0.2 mg/ml; test size: 5  $\mu$ l (0.06  $\mu$ g)/test


Host/Isotype: Mouse IgG2a

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.

**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  $\beta$  chain (CD8  $\alpha\beta$ ) or as a homodimer (CD8  $\alpha\alpha$ ). 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

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

The Alexa Fluor<sup>®</sup> 700 emits at 723 nm and can be excited with the He-Ne 633 laser. Most instruments will require a 685 LP mirror and 710/20 filter. Please make sure that your instrument is capable of detecting this fluorochrome.

### Applications Tested

This OKT8 (OKT-8) antibody has been tested by flow cytometric analysis of human peripheral blood leukocytes. This is offered in 2 formats:

-  $\mu$ g size: This can be used at at 0.06  $\mu$ g per test. A test is defined as the amount ( $\mu$ g)/test of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $11^5$  to  $10^8$  cells/test.

- test size: has been pre-titrated and can be used at test size: 5  $\mu$ l (0.06  $\mu$ g)/per test A test is defined as the amount ( $\mu$ g)/test of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test. The pre-titrated test size contains 0.2% BSA.

### References

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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

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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

56-4724 Mouse IgG2a K Isotype Control Alexa Fluor® 700

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