

CD8 alpha antibody [OKT8] (PE-Cy7)

Cat. No. GTX01466-10

Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Applications	FCM
Reactivity	Human

References (7)
 Package
 100 test

PRODUCT

Summary

The OKT8 antibody is specific for the 32-34 kDa alpha chain of human CD8, known as CD8a or CD8 alpha. CD8a can form a homodimer (CD8 alpha-alpha), but is more commonly expressed as a heterodimer with a second chain known as CD8b or CD8 beta. CD8 acts as a co-receptor for antigen recognition and subsequent T cell activation that is initiated upon binding of the T cell receptor (TCR) to antigen-bearing MHC Class I molecules. The cytoplasmic domains of CD8 provide binding sites for the tyrosine kinase lck, facilitating intracellular signaling events that lead to T cell activation, development, and cytotoxic effector functions. CD8+ cytotoxic T cells (CTLs) play an important role in inducing cell death of tumor cells, as well as cells infected by virus, bacteria or parasites. The OKT8 antibody is widely used as a phenotypic marker for CD8 on cytotoxic T cells, thymocytes, as well as on certain cell types that do not also express the TCR, including some NK cells and lymphoid dendritic cells. If used together with alternative antibodies Anti-Human CD8a clone RPA-T8 or Anti-Human CD8a clone Hit8a, the OKT8 antibody will not block binding of RPA-T8 or Hit8a.

Applications

Application Note

*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution

Recommended dilution

Suggested dilution	Recommended dilution
FCM	0.25 µg (5 µl) for 10 ⁵ -10 ⁸ cells in 100 µl sample per test

Not tested in other applications.

Properties

Form	Liquid
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Buffer	10mM NaH ₂ PO ₄ , 150mM NaCl, 0.1% Gelatin
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Preservative	0.09% Sodium azide
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Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. Store at 4°C. DO NOT FREEZE. Protect from light.
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Concentration	0.05 mg/ml (Please refer to the vial label for the specific concentration.)
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Purification	Purified by affinity chromatography From tissue culture supernatant
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Conjugation	Phycoerythrin-Cyanine7 (PE-Cy7) Wavelength
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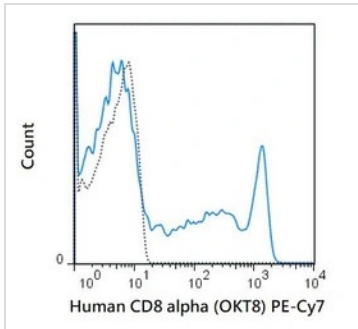
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Note

Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.

DATA IMAGES

**GTX01466-10 FCM Image**

FACS analysis of human peripheral blood lymphocytes using GTX01466-10 CD8 alpha antibody [OKT8] (PE-Cy7).

Solid line : primary antibody

Dashed line : isotype control

antibody amount : 0.25 μ g (5 μ l)



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