

Product datasheet

violetFluor™ 450 Anti-CD8 alpha antibody [OKT8] ab241101

[1 Image](#)

Overview

Product name	violetFluor™ 450 Anti-CD8 alpha antibody [OKT8]
Description	violetFluor™ 450 Mouse monoclonal [OKT8] to CD8 alpha
Host species	Mouse
Conjugation	violetFluor™ 450. Ex: 405nm, Em: 450nm
Specificity	ab241101 is specific for the 32-34 kDa alpha chain of human CD8, known as CD8a or CD8 alpha.
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	The details of the immunogen for this antibody are not available.
Positive control	Flow Cyt: Human peripheral blood lymphocytes.
General notes	<p>If used together with alternative antibodies Anti-Human CD8 alpha clone RPA-T8 or Anti-Human CD8 alpha clone Hit8a, the OKT8 antibody will not block binding of RPA-T8 or Hit8a.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Store In the Dark.
Storage buffer	<p>pH: 7.20</p> <p>Preservative: 0.09% Sodium azide</p> <p>Constituents: 0.12% Monobasic dihydrogen sodium phosphate, 0.87% Sodium chloride, 0.1% Gelatin</p>
Purity	Affinity purified

Purification notes	Purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation.
Clonality	Monoclonal
Clone number	OKT8
Isotype	IgG2a

Applications

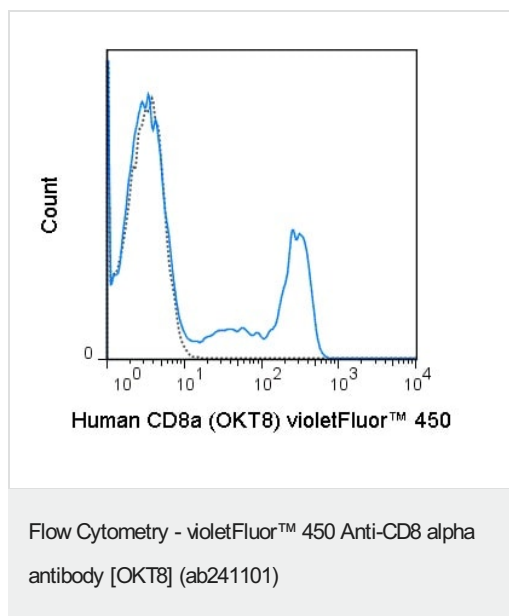
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab241101 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use at an assay dependent concentration. Use 5 µl (0.125 µg)/test.

Target

Function	Identifies cytotoxic/suppressor T-cells that interact with MHC class I bearing targets. CD8 is thought to play a role in the process of T-cell mediated killing. CD8 alpha chains binds to class I MHC molecules alpha-3 domains.
Involvement in disease	Defects in CD8A are a cause of familial CD8 deficiency (CD8 deficiency) [MIM:608957]. Familial CD8 deficiency is a novel autosomal recessive immunologic defect characterized by absence of CD8+ cells, leading to recurrent bacterial infections.
Sequence similarities	Contains 1 Ig-like V-type (immunoglobulin-like) domain.
Post-translational modifications	All of the five most carboxyl-terminal cysteines form inter-chain disulfide bonds in dimers and higher multimers, while the four N-terminal cysteines do not.
Cellular localization	Secreted and Cell membrane.

Images



Flow cytometric analysis of human peripheral blood lymphocytes stained for CD8 alpha with 5 μ l (0.125 μ g) ab241101 (solid line) or 0.125 μ g violetFluor™ 450 Mouse IgG2a isotype control (dashed line).

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