Human CD8 Antibody, mAb, Mouse

Cat. No.	Name	Size
V03001	Human CD8 Antibody (M8A16), mAb, Mouse	*
V03002-25T	Human CD8 Antibody (M8A16) [PE], mAb, Mouse	25 tests
V03002-100T	Human CD8 Antibody (M8A16) [PE], mAb, Mouse	100 tests
V03003-25T	Human CD8 Antibody (M8A16) [APC], mAb, Mouse	25 tests
V03003-100T	Human CD8 Antibody (M8A16) [APC], mAb, Mouse	100 tests
V03004-25T	Human CD8 Antibody (M8A16) [Biotin], mAb, Mouse	25 tests
V03004-100T	Human CD8 Antibody (M8A16) [Biotin], mAb, Mouse	100 tests
V03005-25T	Human CD8 Antibody (M8A16) [FITC], mAb, Mouse	25 tests
V03005-100T	Human CD8 Antibody (M8A16) [FITC], mAb, Mouse	100 tests

Note: * presents that V03001 is available in multiple package sizes: 100 μg, 1 mg (or more). GenScript can customize each product per customer's request including product size, buffer components,etc.

Specificity Human CD8

Alternative Name Leu2, MAL, T8, CD8 Antigen (P32)

Isotype Mouse IgG1, κ

Clone M8A16

Application Flow cytometry

Recommended Usage 5 μL per test for each conjugated antibody and 2.5 μg/mL for unconjugated antibody in flow cytometry assay.

Each lot of the antibodies undergoes quality control test by flow cytometric analysis. The suggested use of each conjugated antibody is 5 μL per million cells or 5 μL per 100 μL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

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Preparation The antibody was purified by affinity chromatography and then individually conjugated with PE, APC, Biotin and FITC under optimal conditions.

Concentration Lot-specific. Please check your CoA to find the concentration.

Formulation

a) For conjugated antibody: PBS, pH 7.4, containing gelatin and 0.03% ProClin300.

b) For unconjugated antibodies:

1) PBS, pH 7.4, containing 0.03% Proclin 300

2) 50 mM Na-citrate, 150 mM NaCl, pH7.0, containing 0.03% Proclin 300 *

*: For new batch since 09/01/2018, please refer to COA.

Storage The conjugated antibodies (V03002, V03003, V03004 and V03005) should be stored at 4°C for one year and protected from prolonged exposure to light. **Do not freeze.**

The unconjugated antibody (V03001) should be stored for up to three months at 2-8°C or for up to three years at -20°C or below. Avoid repeated freezing and thawing cycles.

Background CD8 (cluster of differentiation 8) is a cell surface glycoprotein, found on most cytotoxic T lymphocytes. CD8 antigen is existed as a homodimer composed of two alpha chains or as a heterodimer composed of one alpha and one beta chain. $CD8^+$ cytotoxic T cells are crucial for the killing of virus-infected cells and tumor cells.

Fluorescent Dyes

	Excitation Source	Excitation Max	Emission Max
FITC	Blue 488 nm	494 nm	520 nm
PE	Blue 488 nm, Green 532 nm, Yellow/Green 561 nm	496 nm	578 nm
APC	Red 633 nm	650 nm	660 nm

Data Demonstration

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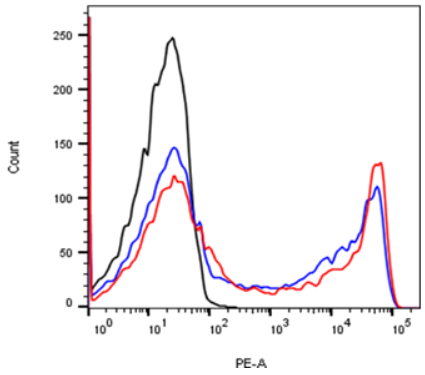

Figure 1. Human peripheral blood lymphocytes were stained with CD8 Antibody (M8A16), mAb, Mouse (GenScript, V03001; red curve) or with a negative control antibody (black curve), or with a positive antibody (blue curve) followed by R-PE conjugated anti-mouse IgG in flow cytometric analysis.

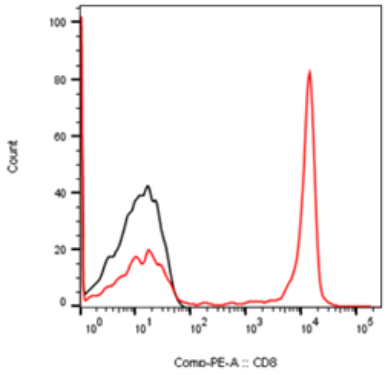

Figure 2. Human peripheral blood lymphocytes were stained with Human CD8 Antibody (M8A16) [PE], mAb, Mouse (GenScript, V03002; red curve) or with a negative control antibody (black curve) in flow cytometric analysis.

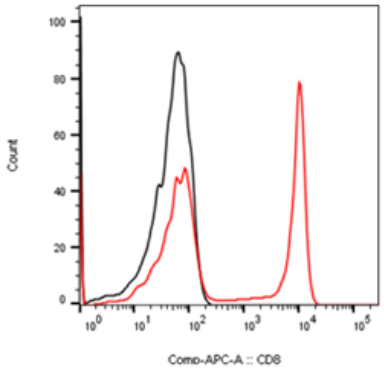

Figure 3. Human peripheral blood lymphocytes were stained with Human CD8 Antibody (M8A16) [APC], mAb, Mouse (GenScript, V03003; red curve) or with a negative control antibody (black curve) in flow cytometric analysis.

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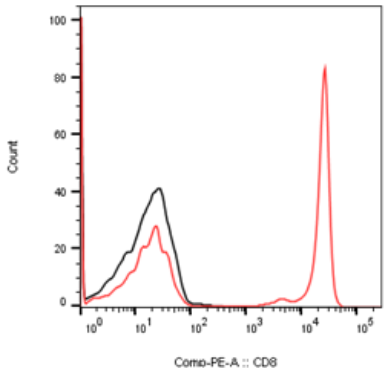

Figure 4. Human peripheral blood lymphocytes were stained with Human CD8 Antibody (M8A16) [Biotin], mAb, Mouse (GenScript, V03004; red curve) or with a negative control antibody (black curve) followed by PE conjugated Streptavidin in flow cytometric analysis.

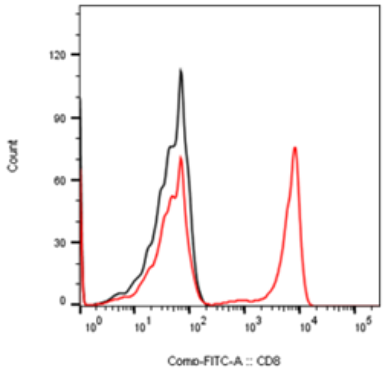

Figure 5. Human peripheral blood lymphocytes were stained with Human CD8 Antibody (M8A16) [FITC], mAb, Mouse (GenScript, V03005; red curve) or with a negative control antibody (black curve) in flow cytometric analysis.

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