

APC anti-human CD8a Antibody

Catalog# / Size 388707 / 25 tests
 388708 / 100 tests

Clone S21010A

Regulatory Status RUO

Other Names T8, Leu2, CD8 Antigen

Isotype Mouse IgG1, κ

Description CD8 α , also known as T8 or Leu2, is a 32-34 kD type 1 transmembrane glycoprotein part of the immunoglobulin superfamily. CD8 α is expressed on cytotoxic T cells, NK cells, as well as a majority of thymocytes. CD8 α can form a homodimer (CD8 α/α) or heterodimer (CD8 α/β) with CD8 β . CD8 α acts as a co-receptor with MHC class I-restricted T cell receptors in antigen recognition and T cell activation, and has been shown to play a role in thymic differentiation. Two domains in CD8 α are important for function: the extracellular Ig superfamily domain binds the $\alpha 3$ domain of MHC Class I and the cytoplasmic CXCP motif binds the tyrosine kinase p56 Lck.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Human CD8 α -transfected cells
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Red Laser (633 nm)
Application Notes	Clone S21010A can completely block the binding of clone HIT8a on target cells and can be blocked by HIT8a. Clone S21010A does not block the binding of clone SK1, clone RPA-T8, and clone S21010F. Clone S21010A does not interfere with the binding of anti-human CD8β antibodies S21011A or QA20A40. Clone S21010A shows comparable staining signals on 4% paraformaldehyde-fixed cells and unfixed cells.
RRID	AB_3717109 (BioLegend Cat. No. 388707) AB_3717109 (BioLegend Cat. No. 388708)

Antigen Details

Structure	Ig superfamily
Distribution	Subset of T cells, most thymocytes, NK cells
Function	TCR co-receptor
Interaction	CD8 β
Ligand/Receptor	MHC Class I molecules
Cell Type	NK cells, T cells, Thymocytes
Biology Area	Immunology
Molecular Family	CD Molecules
Antigen References	1. Barclay N, <i>et al.</i> 1993. The Leucocyte Antigen FactsBook. Academic Press Inc. San Diego. 2. Leahy, D.J., 1995. <i>FASEB J.</i> 9:17-25.
Gene ID	925

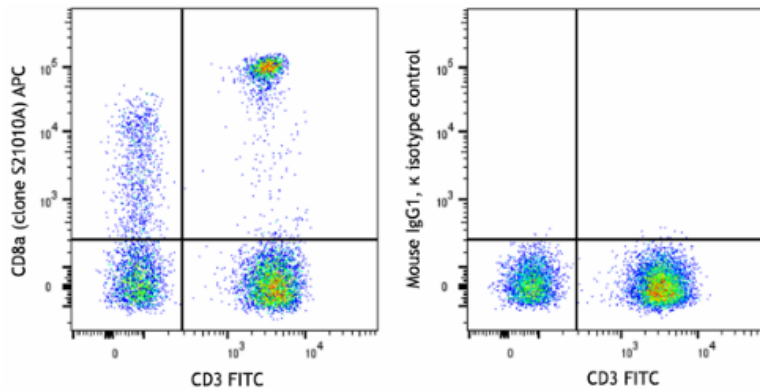
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human CD8a, PE anti-human CD8a, FITC anti-human CD8a, APC anti-human CD8a

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD3 (clone UCHT1) FITC and anti-human CD8a (clone S21010A) APC (left) or mouse IgG1, κ APC isotype control (right).

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