

Datasheet for 200-326-M64**CD8 APC Antibody****Overview**

Description:	Anti-CD8 (MOUSE) Allophycocyanin Conjugated Monoclonal Antibody - 200-326-M64
Item No.:	200-326-M64
Size:	500 µL
Applications:	FC
Reactivity:	Human
Host Species:	Mouse

Product Details

Background:	CD8 is a cell surface glycoprotein expressing on thymocytes subsets and cytotoxic T cells and is either a homodimer of two alpha chains, or a heterodimer of one alpha and one beta chain. It acts as a coreceptor during T cell activation through the binding of MHC Class I molecules and is found on T lymphocytes that mediates efficient cell-cell interactions within the immune system. CD8 associates with LCK with the help of a zinc clasp structure and down-regulates the production of major Th2-type cytokines. CD8 is also known to recruit pUL97 thereby inducing dissolution of the nuclear lamina and facilitating the nuclear export of viral capsids.
Synonyms:	T-cell surface glycoprotein CD8 alpha chain, T-lymphocyte differentiation antigen T8/Leu-2, CD8a, CD8A, MAL
Host Species:	Mouse
Conjugate:	Allophycocyanine (APC)
Clonality:	Monoclonal
Clone ID:	RPA-T8
Format:	IgG1
F/P Ratio:	1-2

Target Details

Gene Name:	CD8A
Reactivity:	Human

Immunogen:	Anti-CD8 Antibody (Monoclonal) was produced by repeated immunizations with CD8 antigen.
Purity/Specificity:	Allophycocyanin conjugated CD8 Monoclonal Antibody was Protein G Purified from tissue culture supernatant and is directed against human CD8. Reactivity is observed against human CD8, chimpanzee, baboon, cynomolgus, rhesus, and ooty mangabey. Cross reactivity with CD8 from other sources has not been tested.
Relevant Links:	• UniProtKB - P01732 • NCBI - NP_001139345.1 • GenelD - 925

Application Details

Tested Applications:	FC
Application Note:	Anti-CD8 is tested for Flow Cytometry (Cell Surface). Researchers should determine optimal titers for applications that are not stated.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
FC:	10 μ L/10 ⁶ cells (0.25 μ g)

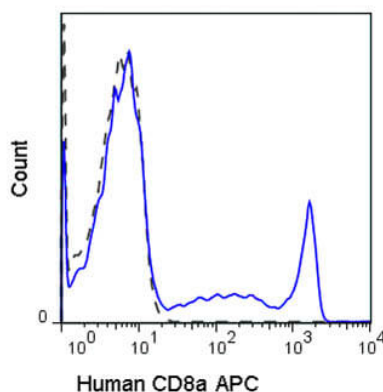
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.05 mg/mL Sufficient to run approximately 100 tests
Buffer:	0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	0.1% Gelatin

Shipping & Handling

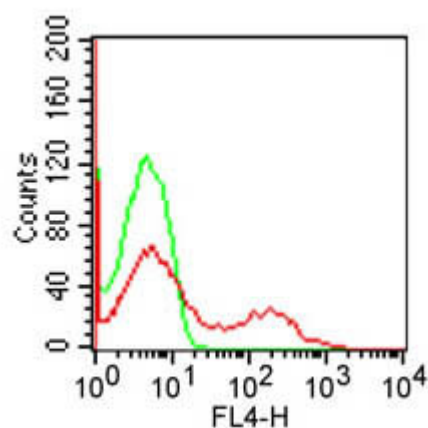
Shipping Condition:	Wet Ice
Storage Condition:	Store vial at 4° C prior to opening. Dilute only prior to immediate use. This product is stable at 4° C as an undiluted liquid. Use subdued lighting during handling and incubation of cells prior to analysis. Store reagent in the dark. DO NOT FREEZE.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



Flow Cytometry

Flow Cytometry of Mouse anti-HUMAN CD8 antibody Allophycocyanin conjugated. Cells: 10^6 Human peripheral blood lymphocytes. Stimulation: none. Antibody: (GRAY) 0.25 μ g APC Mouse IgG1 isotype control antibody; (BLUE) Allophycocyanin Anti-CD8a mouse secondary antibody using 5 μ l (0.25 μ g).



Flow Cytometry

Cell Surface Flow Cytometry of Mouse anti-HUMAN CD8 antibody Allophycocyanin conjugated. Cells: 10^6 human PBMC. Propidium iodide negative lymphocyte population gated for analysis. Stimulation: none. Antibody: (GREEN) isotype control antibody; (RED) Allophycocyanin Anti-CD8 mouse secondary antibody using 10 μ l (0.1 μ g).

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.