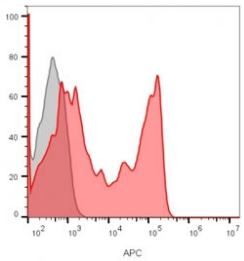
CD8A Antibody for FACS - Human Lymphocyte Gating Antibody [clone C8/1035] (V2384)

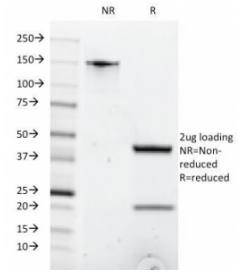
Catalog No.	Formulation	Size
V2384-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2384-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2384SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	C8/1035
Purity	Protein G affinity chromatography
Buffer	1X PBS, pH 7.4
UniProt	P01732
Localization	Cell surface
Applications	ELISA (order BSA/sodium Azide-free Format For Coating) : Flow Cytometry : 0.5-1ug/million cells
Limitations	This CD8A Antibody for FACS - Human Lymphocyte Gating Antibody is available for research use only.



CD8A Antibody for FACS - Human lymphocyte gating. Flow cytometry analysis of CD8 alpha (CD8A) in lymphocyte-gated human PBMC shows a well-resolved right-shifted population (red) relative to unstained cells (gray), consistent with cell surface expression on cytotoxic T lymphocytes and enabling clear separation of CD8-positive cells for accurate gating and immunophenotyping workflows (clone C8/1035).



CD8A Antibody SDS-PAGE. SDS-PAGE Analysis of Purified, BSA-Free CD8A Antibody for FACS - Human Lymphocyte Gating Antibody (clone C8/1035). Confirmation of Integrity and Purity of the Antibody.

Description

CD8 alpha (CD8A) is a transmembrane glycoprotein expressed on cytotoxic T lymphocytes where it functions as a co-receptor for T cell receptor signaling through interaction with MHC class I molecules. CD8A Antibody for FACS is widely used as a lymphocyte gating marker in human peripheral blood mononuclear cells (PBMC), enabling precise identification and separation of CD8-positive cytotoxic T cell populations during flow cytometry analysis. CD8A antibody, also referred to as CD8 alpha antibody or CD8 antigen antibody, is a foundational marker for defining T cell subsets within immunophenotyping workflows.

CD8A is localized to the plasma membrane and is readily accessible for antibody binding in flow cytometry applications, making it ideal for direct cell surface staining without fixation or permeabilization. In FACS analysis of human PBMC, CD8A staining produces a clearly resolved positive population within the lymphocyte gate, allowing accurate discrimination of cytotoxic T cells from CD4-positive helper T cells and non-T cell populations. This strong separation is essential for establishing reproducible gating strategies and minimizing overlap between immune subsets in multi-parameter flow cytometry experiments.

This mouse monoclonal antibody, clone C8/1035, is optimized for flow cytometry and demonstrates robust performance in human PBMC, supporting reliable detection of endogenous CD8A expression in primary lymphocyte populations. Validation in lymphocyte-gated cells reinforces its suitability for gating-driven workflows, where consistent signal intensity and population resolution are critical for downstream analysis. The monoclonal format provides defined epitope recognition, contributing to stable and reproducible staining patterns across experiments.

CD8A Antibody for FACS is particularly important in immunophenotyping pipelines where gating hierarchy directly impacts data interpretation. CD8A is typically used following forward and side scatter gating to isolate lymphocytes, then combined with CD3 staining to define total T cells and CD4/CD8 separation to distinguish helper and cytotoxic subsets. This sequential gating approach relies on clear CD8A signal to accurately define population boundaries, making antibody performance a key determinant of data quality.

In addition to population identification, CD8A staining enables fluorescence-activated cell sorting (FACS) of cytotoxic T lymphocytes for downstream functional assays, transcriptomic analysis, and cell-based studies. Reliable separation of CD8-positive cells supports high-purity isolation, which is critical for experiments requiring defined immune cell subsets. This makes CD8A Antibody for FACS a valuable tool for both analytical flow cytometry and preparative cell sorting workflows.

CD8A flow cytometry antibody staining is frequently incorporated into multi-parameter immunophenotyping panels

alongside markers such as CD3, CD4, CD45, and activation or checkpoint proteins. Within these panels, CD8A serves as a primary axis for subset definition, enabling detailed characterization of immune cell composition and functional states. By providing strong and well-resolved separation of CD8-positive populations within the lymphocyte gate, CD8A Antibody for FACS supports accurate, reproducible, and high-confidence immunophenotyping in human PBMC samples.

This antibody is part of a broader selection of immune cell marker antibodies designed to support studies of T cell biology, immune infiltration, and tumor immunology, including application-specific CD8A antibody reagents for IHC, FACS, WB, and IF.

Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the CD8A Antibody for FACS - Human Lymphocyte Gating Antibody to be titered up or down for optimal performance.

Immunogen

Recombinant full-length human CD8a protein was used as immunogen for this anti-CD8A antibody.

Storage

Store the anti-CD8A antibody (with azide) at 2-8oC. The azide-free format should be aliquoted and stored at -20oC or colder.

Alternate Names

CD8A lymphocyte gating antibody, CD8A FACS gating antibody, CD8 alpha flow cytometry gating antibody, CD8A immunophenotyping antibody, CD8 T cell gating marker antibody

References (1)