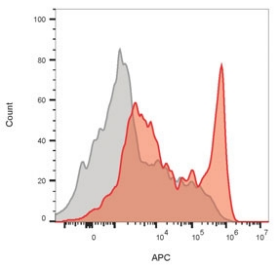
CD8A Antibody for FACS / Human PBMC Flow Cytometry Antibody [clone CD8/3892R] (V8521)

Catalog No.	Formulation	Size
V8521-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8521-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8521SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	CD8/3892R
Purity	Protein A affinity chromatography
UniProt	P01732
Localization	Cell surface
Applications	ELISA: order Ab without BSA for coating Flow cytometry: 1-2ug/million cells
Limitations	This CD8A Antibody for FACS / Human PBMC Flow Cytometry Antibody is available for research use only.



CD8A Antibody for FACS - Human PBMC lymphocyte gating. Flow cytometry analysis of CD8 alpha (CD8A) in human lymphocyte-gated PBMC shows a clear right-shifted population (red) relative to isotype control (gray), consistent with cell surface expression on cytotoxic T lymphocytes and enabling accurate identification and gating of CD8-positive T cell populations within heterogeneous peripheral blood samples (clone CD8/3892R).

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 to detect CD8 alpha on the surface of human peripheral blood mononuclear cells (PBMC), enabling precise identification and quantification of cytotoxic T cell populations by flow cytometry. CD8A antibody, also referred to as CD8 alpha antibody or CD8 antigen antibody, is a core immune marker for defining CD8-positive T cell subsets in human samples.

CD8A is localized to the plasma membrane and is readily accessible for antibody binding in flow cytometry applications, allowing robust cell surface staining without the need for fixation or permeabilization. In FACS analysis of human PBMC, CD8A staining produces a clearly resolved positive population corresponding to cytotoxic T lymphocytes, enabling accurate gating strategies and separation of CD8-positive cells from other immune populations such as CD4-positive helper T cells and non-T cell subsets. This makes CD8A Antibody for FACS essential for high-resolution immune profiling and subset discrimination.

This recombinant rabbit monoclonal antibody, clone CD8/3892R, is optimized for flow cytometry and demonstrates strong performance in human PBMC, providing reliable detection of endogenous CD8A expression in primary immune cells. Validation in peripheral blood-derived samples ensures biological relevance and supports consistent performance in studies involving fresh or processed human immune cell populations. The recombinant monoclonal format contributes to lot-to-lot consistency and high specificity in flow cytometry assays.

CD8A Antibody for FACS is particularly valuable in studies of immune monitoring, where quantification of cytotoxic T cells is critical for assessing immune status, disease progression, and response to therapy. Flow cytometry detection of CD8A is widely used in oncology, infectious disease research, and immunotherapy studies, where changes in CD8-positive T cell populations provide key biological insights. The ability to detect CD8A on viable cells also enables downstream applications such as fluorescence-activated cell sorting (FACS), supporting isolation of cytotoxic T cell populations for functional assays and molecular analysis.

CD8A flow cytometry antibody staining is frequently combined with additional markers such as CD3 antibody to define total T cells, CD4 antibody to distinguish helper T cell subsets, and checkpoint markers including PD-1 or PD-L1 to assess activation or exhaustion states. This multi-parameter approach enables comprehensive characterization of immune cell composition and function within PBMC samples. The combination of strong surface staining, reproducible performance, and compatibility with complex gating strategies makes CD8A Antibody for FACS a critical reagent for human immune profiling workflows.

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

Optimal dilution of the CD8A Antibody for FACS / Human PBMC Flow Cytometry Antibody should be determined by the researcher.

Immunogen

Recombinant human full-length protein was used as the immunogen for the recombinant CD8A antibody.

Storage

Store the recombinant CD8A antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

CD8A FACS antibody, CD8 alpha flow cytometry antibody, CD8A human PBMC antibody, CD8A cell surface marker antibody, CD8A recombinant rabbit antibody

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