# CD8a Monoclonal Antibody (HIT8a), eBioscience™

| **Product Details** | |
|---|---|
| Size | 100 µg |
| Species Reactivity | Human |
| Published Species | Human, Mouse |
| Host/Isotype | Mouse / IgG1, kappa |
| Class | Monoclonal |
| Type | Antibody |
| Clone | HIT8a |
| Conjugate | Unconjugated |
| Form | Liquid |
| Concentration | 0.5 mg/mL |
| Purification | Affinity chromatography |
| Storage buffer | PBS, pH 7.2 |
| Contains | 0.09% sodium azide |
| Storage conditions | 4°C |
| RRID | AB_467097 |

| Applications | Tested Dilution | Publications |
|---|---|---|
| Immunohistochemistry (Frozen) (IHC (F)) | Assay-Dependent | - |
| Flow Cytometry (Flow) | 0.5 µg/test | 4 Publications |

## Product Specific Information

Description: The HIT8a monoclonal antibody reacts with the human CD8a molecule, an approximately 32-34 kDa cell surface receptor expressed either as a heterodimer with the CD8 beta chain (CD8 alpha/beta) or as a homodimer (CD8 alpha/alpha). A majority of thymocytes and a subpopulation of mature T cells and NK cells express CD8a. CD8 binds to MHC class I and through its association with protein tyrosine kinase p56lck plays a role in T cell development and activation of mature T cells.

Applications Reported: The HIT8a antibody has been reported for use in flow cytometric analysis, and immunohistochemical staining of frozen tissue sections.

Applications Tested: The HIT8a antibody has been tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

## Product Images For CD8a Monoclonal Antibody (HIT8a), eBioscience™

**CD8a Antibody (14-0089-82) in Flow**
Staining of normal human peripheral blood cells with Anti-Human CD8a FITC (left) and PE (right). Autofluorescence is indicated by open histogram. Cells in the lymphocyte population were used for analysis.

## 4 References

### Flow Cytometry (4)

**Pathogens & immunity**

**Plasma Extracellular Vesicle Subtypes May be Useful as Potential Biomarkers of Immune Activation in People With HIV.**

"Published figure using CD8a monoclonal antibody (Product # 14-0089-82) in Flow Cytometry"

Authors: Bazié WW,Boucher J,Vitry J,Goyer B,Routy JP,Tremblay C,Trottier S,Jenabian MA,Provost P,Alary M,Gilbert C

**Year**
2022

**Cancer immunology research**

**Calnexin Impairs the Antitumor Immunity of $CD4^+$ and $CD8^+$ T Cells.**

"14-0089 was used in Flow cytometry/Cell sorting to demonstrate that T-cell antitumor responses are regulated by calnexin in tumor cells."

Authors: Chen Y,Ma D,Wang X,Fang J,Liu X,Song J,Li X,Ren X,Li Q,Li Q,Wen S,Luo L,Xia J,Cui J,Zeng G,Chen L, Cheng B,Wang Z

**Year**
2019

**Species**
Human

View more Flow references on thermofisher.cn

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