# CD8A Antibody / Immune Profiling Marker Antibody [clone rCD8/6590] (V9148)

| Catalog No. | Formulation | Size |
|---|---|---|
| V9148-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 100 ug |
| V9148-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 20 ug |
| V9148SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

Recombinant | MOUSE MONOCLONAL

**Bulk quote request**

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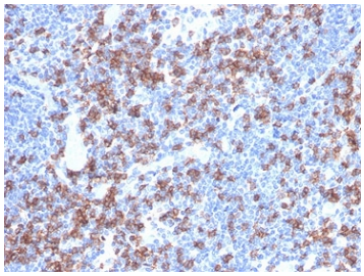
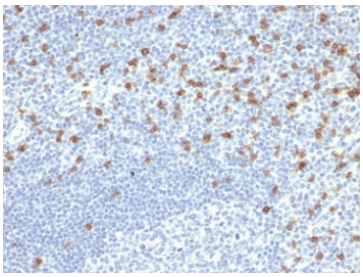
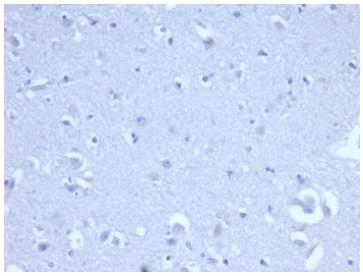
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Recombinant Mouse Monoclonal |
| **Isotype** | Mouse IgG1, kappa |
| **Clone Name** | rCD8/6590 |
| **Purity** | Protein A/G affinity |
| **UniProt** | P01732 |
| **Localization** | Cell Surface |
| **Applications** | Immunohistochemistry (FFPE): 1-2ug/ml |
| **Limitations** | This CD8A Antibody / Immune Profiling Marker Antibody is available for research use only. |



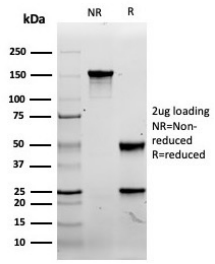
CD8A Antibody Human Lymph Node IHC. Immunohistochemistry analysis of CD8 alpha (CD8A) in FFPE human lymph node tissue shows strong membranous staining of cytotoxic T lymphocytes distributed throughout lymphoid regions, consistent with CD8A expression as an immune profiling marker and supporting identification of CD8-positive T cell populations within a complex immune microenvironment. Heat-induced epitope retrieval was performed in pH 9 10 mM Tris with 1 mM EDTA for 20 minutes followed by cooling prior to antibody incubation.



CD8A Antibody Human Tonsil Tissue IHC. Immunohistochemistry analysis of CD8 alpha (CD8A) in FFPE human tonsil tissue shows membranous staining of cytotoxic T lymphocytes distributed within lymphoid regions, consistent with CD8A expression as an immune profiling marker and supporting identification and assessment of CD8-positive T cell populations within a complex immune microenvironment. Heat-induced epitope retrieval was performed in pH 9 10 mM Tris with 1 mM EDTA for 20 minutes followed by cooling prior to antibody incubation.



Negative control: IHC staining of FFPE human brain tissue with recombinant CD8A antibody (clone rCD8/6590) at 2ug/ml in PBS for 30min RT. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.




SDS-PAGE analysis of purified, BSA-free recombinant CD8A antibody (rCD8/6590) as confirmation of integrity and purity.

## 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 / Immune Profiling Marker Antibody is widely used to define and quantify CD8-positive T cell populations within complex immune systems, enabling detailed characterization of immune composition and cellular subsets. CD8A antibody, also referred to as CD8 alpha antibody or CD8 antigen antibody, is a core component of immunophenotyping workflows used across immunology and translational research.

CD8A is localized to the plasma membrane and is highly accessible for antibody-based detection in flow cytometry, immunofluorescence, and immunohistochemistry. As an Immune Profiling Marker Antibody, CD8A is most commonly used as part of multi-parameter panels that assess immune cell composition, subset distribution, and functional states. It is frequently combined with markers such as CD3, CD4, CD45, and checkpoint proteins to define the structure and dynamics of immune populations.

Immune profiling workflows depend on accurate and reproducible detection of key lineage markers, and CD8A serves as a primary axis for distinguishing cytotoxic T cells from other lymphocyte subsets. In flow cytometry, CD8A is used to gate and quantify CD8-positive populations. In tissue-based profiling, it helps map the spatial distribution of cytotoxic T cells within complex microenvironments. This makes CD8A Antibody / Immune Profiling Marker Antibody essential for studies that aim to understand immune system composition at both the cellular and tissue levels.

Unlike more narrowly focused functional markers, CD8A in immune profiling contexts is interpreted alongside multiple additional parameters, contributing to a broader understanding of immune architecture. Researchers use CD8A antibody to assess shifts in immune populations across disease states, treatment conditions, and experimental models, making it a central component of systems-level immunology approaches.

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 / Immune Profiling Marker Antibody should be determined by the researcher.

## Immunogen

A portion of amino acids 135-235 of CD8 alpha protein was used as the immunogen for the recombinant CD8A antibody.

## Storage

Aliquot the recombinant CD8A antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

## Alternate Names

CD8A immune profiling marker antibody, CD8 alpha immune phenotyping antibody, CD8A lymphocyte profiling antibody, CD8A immune subset marker antibody, CD8A immunophenotyping antibody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