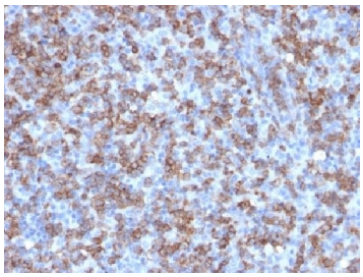
CD8A Antibody / Cytotoxic T Cell Marker Antibody [clone C8/1779R] (V3471)

Catalog No.	Formulation	Size
V3471-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3471-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3471SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3471IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

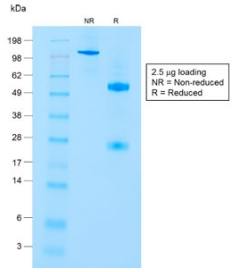
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	C8/1779R
Purity	Protein A affinity chromatography
Buffer	1X PBS, pH 7.4
UniProt	P01732
Localization	Cell surface
Applications	Immunohistochemistry (FFPE): 0.5-1ug/ml for 30 min at RT
Limitations	This CD8A Antibody / Cytotoxic T Cell Marker Antibody is available for research use only.



CD8A Antibody Lymphoma IHC. Immunohistochemistry analysis of CD8 alpha (CD8A) in FFPE human lymphoma tissue shows strong membranous staining of infiltrating cytotoxic T lymphocytes within the tumor microenvironment, consistent with CD8A expression as a cytotoxic T cell marker and supporting identification of effector T cell populations in lymphoid malignancy. Heat-induced epitope retrieval was performed in 10 mM citrate buffer, pH 6.0, for 10-20 minutes followed by cooling at room temperature.



SDS-PAGE analysis of purified, BSA-free CD8A Antibody / Cytotoxic T Cell Marker Antibody (clone C8/1779R) as confirmation of integrity and purity.

Description

CD8 alpha (CD8A) is a transmembrane glycoprotein expressed predominantly 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 / Cytotoxic T Cell Marker Antibody is widely used to identify and study CD8-positive effector T cells responsible for antigen-specific cytotoxic activity. CD8A antibody, also referred to as CD8 alpha antibody or CD8 antigen antibody, represents one of the most direct and biologically meaningful markers for defining cytotoxic T cell populations across experimental systems.

CD8A is localized to the plasma membrane and plays a central role in antigen recognition and target cell killing. As a Cytotoxic T Cell Marker Antibody, CD8A is closely tied to functional immune responses, including clearance of virus-infected cells, tumor cell recognition, and regulation of adaptive immunity. This functional specificity makes CD8A antibody particularly valuable in studies focused on immune effector mechanisms rather than general immune cell identification.

CD8A Antibody / Cytotoxic T Cell Marker Antibody is commonly used in immunohistochemistry to visualize cytotoxic T lymphocytes within tissues, in flow cytometry to quantify CD8-positive populations, and in immunofluorescence to assess spatial distribution of effector T cells. In these workflows, CD8A provides a direct readout of cytotoxic immune potential, distinguishing these cells from CD4-positive helper T cells and other immune populations.

This functional positioning is especially important in studies of immune activation, antigen-specific responses, and T cell-mediated cytotoxicity. Researchers investigating infection, cancer immunity, or transplant rejection frequently rely on CD8A antibody to measure the presence and magnitude of cytotoxic T cell responses. The ability to directly associate CD8A expression with cytotoxic function makes this marker particularly informative in mechanistic immunology studies.

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 / Cytotoxic T Cell Marker Antibody to be titered up or down for optimal performance.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if

required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Recombinant full-length human CD8a protein was used as immunogen for this recombinant CD8 antibody.

Storage

Store the recombinant CD8 antibody (with azide) at 2-8oC. The azide-free format should be aliquoted and stored at -20oC or colder.

Alternate Names

CD8A cytotoxic T cell marker antibody, CD8 alpha cytotoxic lymphocyte antibody, CD8A T cell surface marker antibody, CD8A immune cell marker antibody, CD8A cytotoxic lymphocyte antibody

References (1)

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