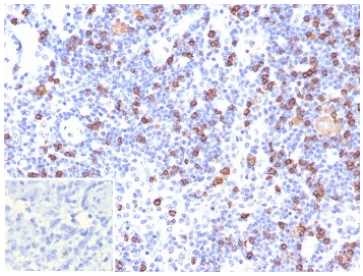
CD8A Antibody / T Cell Activation Marker Antibody [clone CD8/7793R] (V4877)

Catalog No.	Formulation	Size
V4877-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4877-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4877SAF-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, kappa
Clone Name	CD8/7793R
Purity	Protein A/G affinity
UniProt	P01732
Localization	Cell surface
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This CD8A Antibody / T Cell Activation Marker Antibody is available for research use only.



CD8A Antibody LN IHC. Immunohistochemistry analysis of CD8 alpha (CD8A) in FFPE human lymph node tissue shows membranous staining of cytotoxic T lymphocytes distributed throughout lymphoid regions, consistent with CD8-positive cells participating in antigen-driven activation and supporting detection of this T cell activation marker within the immune microenvironment. Inset: PBS used in place of primary antibody as a negative control. 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.

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 / T Cell Activation Marker Antibody is widely used to evaluate activation-dependent changes in cytotoxic T cell populations, where engagement of the T cell receptor leads to proliferation, differentiation, and acquisition of effector function. CD8A antibody, also referred to as CD8 alpha antibody or CD8 antigen antibody, is a key reagent for identifying T cells actively participating in antigen-driven immune responses.

CD8A is localized to the plasma membrane and is directly involved in stabilizing antigen recognition and amplifying intracellular signaling pathways following T cell receptor engagement. Upon activation, CD8-positive T cells undergo expansion and functional maturation, acquiring cytotoxic capabilities such as target cell killing and cytokine production. Detection of CD8A therefore provides a reliable indicator of cytotoxic T cell presence within activated immune populations.

CD8A Antibody / T Cell Activation Marker Antibody is commonly used in flow cytometry to quantify activated CD8-positive T cells, in immunohistochemistry to visualize activated lymphocytes within tissues, and in immunofluorescence to examine spatial relationships between activated T cells and target cells. In these applications, CD8A staining highlights effector T cell populations engaged in ongoing immune responses, particularly in contexts where antigen-specific activation is occurring.

In infectious disease models, activated CD8-positive T cells mediate clearance of virus-infected cells. In cancer, they contribute to recognition and elimination of tumor cells. In inflammatory and autoimmune conditions, activated cytotoxic T cells can drive tissue damage. CD8A detection is therefore frequently used alongside markers of activation and signaling to assess the magnitude and localization of T cell responses under different biological conditions.

CD8A Antibody is especially useful in experimental systems involving stimulation or modulation of T cell activity, where changes in CD8-positive cell abundance reflect activation dynamics. It also supports studies examining expansion of antigen-specific T cell populations and transitions between naÃƒÂ¯ve, activated, and effector states.

Detection of CD8A in activated lymphocyte populations provides insight into the cellular mechanisms underlying adaptive immune responses. This makes CD8A Antibody a valuable tool for investigating T cell activation, effector function, and antigen-driven immune processes across a wide range of biological and disease settings.

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 / T Cell Activation Marker Antibody should be determined by the researcher.

Immunogen

Recombinant human full-length CD8a protein was used as the immunogen for the CD8A Antibody / T Cell Activation Marker Antibody.

Storage

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

Alternate Names

CD8A T cell activation marker antibody, CD8 alpha activation marker antibody, CD8A activated T cell antibody, CD8A immune activation antibody, CD8A effector T cell marker antibody

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