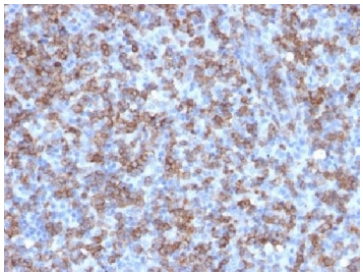
Recombinant CD8 Antibody (alpha chain) / Rabbit Monoclonal [clone C8/1779R] (V3471)

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

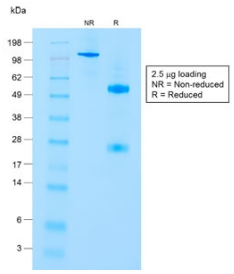
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
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 recombinant CD8 antibody is available for research use only.



IHC testing of FFPE human lymphoma with recombinant CD8 antibody (clone C8/1779R). Required HIER: boil tissue sections in 10mM citrate buffer, pH 6, for 10-20 min followed by cooling at RT for 20 min.



SDS-PAGE analysis of purified, BSA-free recombinant CD8 antibody (clone C8/1779R) as confirmation of integrity and purity.

Description

Recombinant CD8 antibody is a dependable reagent for studying CD8, a coreceptor expressed on the surface of cytotoxic T lymphocytes. CD8 is a transmembrane glycoprotein composed of alpha and beta chains that stabilize interactions between the T cell receptor and peptide MHC class I complexes. This interaction enhances antigen recognition and ensures efficient immune responses against infected or malignant cells. Because of its importance in adaptive immunity, CD8 is one of the most frequently studied markers in immunology.

The protein functions as both a structural and signaling molecule. By binding to conserved regions of MHC class I molecules, CD8 increases the sensitivity of T cells to antigen presentation. Its cytoplasmic tail interacts with signaling proteins such as Lck, amplifying downstream pathways that lead to T cell activation, proliferation, and cytotoxic activity. These functions make CD8 a central mediator of antiviral and antitumor immunity.

The Recombinant CD8 antibody clone C8/1779R offers precise recognition of this important receptor. Recombinant production provides superior lot to lot consistency and reduces variability that may occur with traditional hybridoma methods. Clone C8/1779R has been widely applied in studies examining CD8 T cell development in the thymus, peripheral immune responses, and tumor infiltrating lymphocytes. Its reliability ensures reproducible results across experiments.

Research involving CD8 has expanded understanding of how T cells respond to infection, vaccination, and cancer. Elevated CD8 T cell activity is associated with effective immune clearance, while defects in CD8 signaling contribute to immune deficiencies. Studies using clone C8/1779R have clarified the role of CD8 in immune regulation and provided insights into how cytotoxic lymphocytes shape outcomes in disease.

NSJ Bioreagents provides this Recombinant CD8 antibody to support research into T cell biology and immune defense. The protein is also referenced as cluster of differentiation 8 antibody, CD8 alpha beta coreceptor antibody, T cell surface glycoprotein CD8 antibody, and cytotoxic T cell marker antibody, reflecting the varied terminology used by immunologists.

Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the recombinant CD8 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.

References (1)