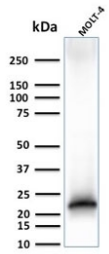
Recombinant CD3e Antibody / CD3 epsilon [clone C3e/3125R] (V7557)

Catalog No.	Formulation	Size
V7557-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7557-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7557SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

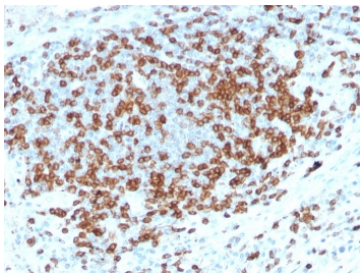
Recombinant RABBIT MONOCLONAL

Bulk quote request

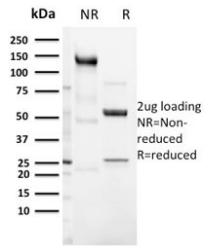
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	C3e/3125R
Purity	Protein A affinity chromatography
UniProt	P07766
Localization	Cell surface, cytoplasmic
Applications	ELISA (order BSA-free format for coating) Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This recombinant CD3e antibody is available for research use only.



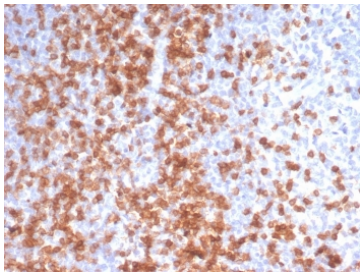
Western blot testing of human MOLT-4 cell lysate with recombinant CD3e antibody (clone C3e/3125R). Predicted molecular weight ~23 kDa.



IHC staining of FFPE human tonsil with recombinant CD3e antibody (clone C3e/3125R). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free recombinant CD3e antibody (clone C3e/3125R) as confirmation of integrity and purity.



IHC staining of FFPE human tonsil with recombinant CD3e antibody (clone C3e/3125R). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.

Description

Recombinant CD3e antibody detects CD3 epsilon, a component of the CD3 complex encoded by the CD3E gene. CD3 epsilon is an integral part of the T-cell receptor complex, which is essential for antigen recognition and T-cell activation. Because CD3 is expressed on nearly all mature T cells, Recombinant CD3e antibody is an indispensable tool in immunology, oncology, and diagnostic research.

The CD3 complex includes CD3 epsilon, gamma, delta, and zeta chains, which associate with the T-cell receptor alpha and beta chains. CD3 epsilon contains immunoreceptor tyrosine-based activation motifs (ITAMs) in its cytoplasmic tail, which initiate signaling upon T-cell receptor engagement. These motifs recruit kinases such as Lck and Zap70, triggering cascades that regulate proliferation, differentiation, and cytokine production.

The Recombinant CD3e antibody clone C3e/3125R provides consistent and specific recognition. Recombinant production ensures reproducibility across batches, minimizing variability in long-term studies. Clone C3e/3125R has been referenced in peer-reviewed publications investigating T-cell signaling, thymocyte development, and immunotherapy. Its specificity makes it suitable for flow cytometry, immunohistochemistry, and functional assays of T-cell activation.

Research using clone C3e/3125R has demonstrated how CD3 epsilon expression is indispensable for T-cell development in the thymus and for peripheral immune responses. In oncology, CD3 detection helps characterize tumor-infiltrating lymphocytes and supports the development of bispecific antibodies and CAR T-cell therapies that rely on CD3 engagement. Beyond cancer, CD3 studies are central to understanding autoimmunity, infectious disease, and transplant rejection, where T-cell activity is a determining factor.

NSJ Bioreagents supplies this Recombinant CD3e antibody to support T-cell biology, immunotherapy, and diagnostic applications. Alternate names include CD3E antibody, T-cell surface glycoprotein CD3 epsilon chain antibody, T-cell receptor-associated protein epsilon antibody, T-cell receptor signaling component antibody, and thymocyte differentiation antigen antibody.

A full range of CD3e antibody reagents for immunohistochemistry, western blot, and flow cytometry is available on our CD3e Antibody collection page.

Application Notes

Optimal dilution of the recombinant CD3e antibody should be determined by the researcher.

Immunogen

A recombinant human partial protein (amino acids 23-119) was used as the immunogen for the recombinant CD3e antibody.

Storage

Store the recombinant CD3e antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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