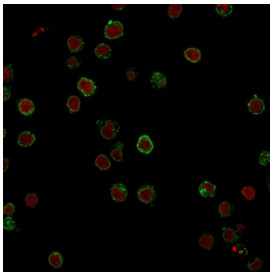
CD3e Antibody Clone CRIS-7 / CD3 Epsilon Monoclonal Antibody [clone CRIS-7] (V2955)

Catalog No.	Formulation	Size
V2955-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2955-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2955SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

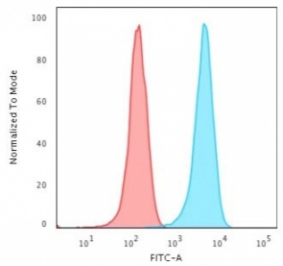
Citations (11)

Bulk quote request

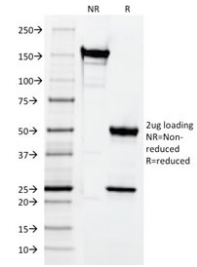
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	CRIS-7
Purity	Protein G affinity chromatography
UniProt	P07766
Localization	Cell surface and cytoplasmic
Applications	Induce T Cell Activation And Proliferation (order BSA/sodium Azide-free Format) : Flow Cytometry : 1-2ug/10^6 cells Immunofluorescence : 1-2ug/ml
Limitations	This CD3e antibody is available for research use only.



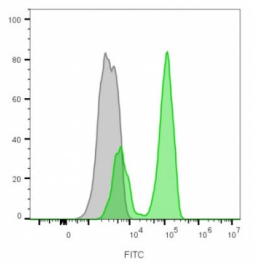
CD3e Antibody Clone CRIS-7. Immunofluorescence analysis of CD3 Epsilon / CD3E antibody staining in FFPE human Jurkat cells using CD3e Antibody Clone CRIS-7 / CD3 Epsilon Monoclonal Antibody. CD3-positive cells are detected as bright green membrane-associated fluorescence outlining individual cells, consistent with cell surface localization of the T-cell receptor complex. Reddot nuclear stain (red) marks nuclei, providing clear cellular context. The staining shows uniform CD3 expression across Jurkat cells with distinct membrane signal and low background, supporting specific detection of CD3 epsilon.



CD3e Antibody Clone CRIS-7. Flow cytometry analysis of CD3 Epsilon / CD3E antibody staining in human Jurkat cells using CD3e Antibody Clone CRIS-7 / CD3 Epsilon Monoclonal Antibody. A clear rightward shift of the blue histogram relative to the isotype control (red) demonstrates strong detection of CD3-positive cells with tight population resolution. The distinct separation supports accurate identification and gating of T-cell populations in flow cytometry-based analysis.



SDS-PAGE analysis of purified, BSA-free CD3e antibody (clone CRIS-7) as confirmation of integrity and purity.



Flow cytometry staining of lymphocyte-gated human PBM cells with CF488A-labeled CD3e antibody clone CRIS-7. Gray=unstained, Green=CF488A-CD3e antibody.

Description

CD3 epsilon (CD3E) is an integral component of the T-cell receptor (TCR) complex that is consistently expressed on T lymphocytes and plays a key role in antigen recognition and signal transduction. CD3e Antibody Clone CRIS-7 / CD3 Epsilon Monoclonal Antibody enables detection of CD3 Epsilon / CD3E and supports analysis of T-cell populations in a range of research applications. CD3e antibody, also known as CD3 epsilon antibody or CD3E antibody, is widely used as a pan-T cell marker antibody for identifying T lymphocytes.

CD3 epsilon functions as part of the CD3 signaling complex, associating with CD3 gamma, CD3 delta, and CD3 zeta chains to form a receptor system that initiates intracellular signaling cascades following antigen engagement. These signaling pathways regulate T-cell activation, proliferation, and differentiation, making CD3 epsilon a central molecule in adaptive immune responses. CD3e antibody reagents are therefore commonly used to study immune signaling, lymphocyte biology, and T-cell-mediated responses.

CD3e Antibody Clone CRIS-7 provides a well-characterized monoclonal option for detecting CD3 epsilon, with representation in peer-reviewed studies supporting its use in T-cell research. With a moderate literature footprint, CRIS-7 offers a balanced alternative to highly cited clones, allowing researchers to select a reagent that is supported by published data while avoiding over-reliance on a single widely used clone.

In practical applications, CD3e antibody reagents are used to identify T-cell populations within heterogeneous samples such as blood-derived cells, lymphoid tissues, and in vitro culture systems. Accurate detection of CD3-positive cells is essential for evaluating immune composition and function. Clone CRIS-7 contributes to these analyses by providing reliable recognition of CD3 epsilon and supporting consistent identification of T-cell populations.

The use of alternative clones such as CRIS-7 can be advantageous in experimental designs that benefit from independent validation or comparative analysis. Employing multiple clones targeting the same protein can help confirm

findings and reduce the risk of clone-specific artifacts. In this context, CRIS-7 serves as a complementary reagent within the broader CD3e antibody toolkit.

As a monoclonal antibody, clone CRIS-7 provides consistent epitope recognition and reproducible performance across experiments. CD3e Antibody Clone CRIS-7 supports reliable detection of CD3 epsilon and is suitable for research applications focused on T-cell identification, immune signaling, and functional studies.

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 CD3e Antibody Clone CRIS-7 / CD3 Epsilon Monoclonal Antibody should be determined by the researcher.

Immunogen

Stimulated human leukocytes were used as the immunogen for the CD3e Antibody Clone CRIS-7 / CD3 Epsilon Monoclonal Antibody.

Storage

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

Alternate Names

CD3E antibody, CD3 epsilon CRIS-7 antibody, CD3 monoclonal antibody CRIS-7, CD3 T cell marker antibody, CD3 antigen epsilon chain antibody