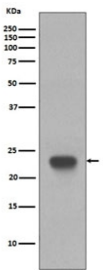
CD3 epsilon Antibody / T Cell Activation Marker Antibody [clone EED-3] (RQ5185)

Catalog No.	Formulation	Size
RQ5185	Antibody in PBS with 0.02% sodium azide, 50% glycerol and 0.4-0.5mg/ml BSA	100 ul

Bulk quote request

Availability	1-2 weeks
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	EED-3
Purity	Affinity purified
UniProt	P07766
Applications	Western blot: 1:500-1:2000
Limitations	This CD3 epsilon antibody is available for research use only.



CD3 epsilon Antibody Western Blot. Analysis of CD3 Epsilon / CD3E detection in human Jurkat cell lysate using CD3 epsilon Antibody / T Cell Activation Marker Antibody. Lane 1: human Jurkat cell lysate. A band is observed at approximately 23 kDa, consistent with the predicted molecular weight of CD3 epsilon. The strong, well-defined signal supports reliable detection of this T-cell activation-associated protein in T-cell-derived lysates.

Description

CD3 epsilon (CD3E) is a critical signaling component of the T-cell receptor (TCR) complex that plays a central role in antigen recognition and activation of T lymphocytes. CD3 epsilon Antibody / T Cell Activation Marker Antibody enables detection of CD3 epsilon / CD3E and is widely used to study activation-dependent processes in T cells. CD3 epsilon antibody, also referred to as CD3E antibody, is commonly described as a T cell activation marker antibody because it directly participates in the signaling events that initiate T-cell activation.

This CD3 epsilon Antibody is uniquely positioned for investigating functional activation states of T lymphocytes. CD3 epsilon forms part of the CD3 signaling complex together with CD3 gamma, CD3 delta, and CD3 zeta chains, which associate with the TCR. Engagement of the TCR triggers phosphorylation-dependent signaling cascades that drive T-cell activation, proliferation, and differentiation into effector and memory subsets. Because CD3 epsilon is directly involved in these early activation events, its detection provides a biologically relevant readout of T-cell activation status.

As a T cell activation marker antibody, CD3 epsilon antibody reagents enable analysis of activation-associated changes in T-cell populations. Detection of CD3 epsilon supports studies of receptor engagement, signal initiation, and downstream functional responses such as cytokine production, clonal expansion, and effector differentiation. CD3 epsilon Antibody / T Cell Activation Marker Antibody is therefore particularly valuable in experimental systems designed to evaluate immune activation and response dynamics.

T-cell activation is tightly regulated and determines the outcome of adaptive immune responses. CD3 epsilon serves as a key mediator of signal transduction from the TCR to intracellular pathways that control T-cell function. Changes in CD3 epsilon signaling can influence activation thresholds, response magnitude, and immune regulation. This makes CD3 epsilon antibody a critical tool for studying how T cells transition between resting and activated states.

In experimental applications, CD3 epsilon antibody reagents are used to monitor activation dynamics in cultured T cells, primary lymphocytes, and tissue-derived immune populations. Detection of CD3 epsilon enables researchers to assess how experimental conditions influence T-cell activation and functional outcomes.

CD3 epsilon antibody can also be used in combination with additional activation or differentiation markers to provide a more comprehensive view of T-cell functional states. Integration with other readouts enables detailed characterization of immune activation and response profiles.

CD3 epsilon Antibody / T Cell Activation Marker Antibody provides a biologically informative and reliable tool for studying T-cell activation, supporting research focused on immune response, signaling pathways, and functional immunology.

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 CD3 epsilon Antibody / T Cell Activation Marker Antibody should be determined by the researcher.

Immunogen

A synthetic peptide specific to human CD3 epsilon / CD3E was used as the immunogen for the CD3 epsilon Antibody / T Cell Activation Marker Antibody.

Storage

Store the CD3 epsilon antibody at -20oC.

Alternate Names

CD3E antibody, CD3 epsilon activation marker antibody, CD3 T cell activation antibody, CD3 immune activation marker antibody, CD3 signaling activation antibody

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