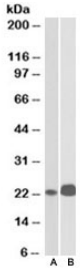
CD3e Antibody / T Lymphocyte Identification Marker Antibody (R35652)

Catalog No.	Formulation	Size
R35652-100UG	0.5 mg/ml in 1X TBS, pH7.3, with 0.5% BSA (US sourced) and 0.02% sodium azide	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Rat, Pig
Format	Antigen affinity purified
Host	Goat
Clonality	Polyclonal (goat origin)
Isotype	Goat Ig
Purity	Antigen affinity
Gene ID	916
Applications	Western blot: 0.1-0.3ug/ml ELISA (peptide) LOD: 1:128000
Limitations	This CD3e antibody is available for research use only.



CD3e Antibody. Western blot analysis of CD3 Epsilon / CD3E antibody using CD3e Antibody / T Lymphocyte Identification Marker Antibody in human cell lysates. Lane A: Jurkat cell lysate, Lane B: Molt-4 cell lysate. A band is detected at approximately 23 kDa in both samples, consistent with the predicted molecular weight of CD3 epsilon. The presence of a clear band in both T-cell-derived lysates supports reliable detection of CD3E and confirms its utility as a marker for T lymphocyte identification.

Description

CD3 epsilon (CD3E) is a membrane-associated protein that is expressed on T lymphocytes as part of the T-cell receptor (TCR) complex and is essential for T-cell identity. CD3e Antibody / T Lymphocyte Identification Marker Antibody enables detection of CD3 Epsilon / CD3E and is widely used to identify T-cell populations within complex biological samples. CD3e antibody, also known as CD3 epsilon antibody or CD3E antibody, is commonly referred to as a T lymphocyte identification marker antibody due to its consistent and lineage-restricted expression in T cells.

This CD3e Antibody is uniquely positioned for precise identification of T lymphocytes across heterogeneous cellular environments. CD3 epsilon forms part of the CD3 complex together with CD3 gamma, CD3 delta, and CD3 zeta chains, which associate with the TCR and are required for T-cell development and function. Expression of CD3 epsilon defines T-cell identity and distinguishes T lymphocytes from other immune cell populations.

As a T lymphocyte identification marker antibody, CD3e antibody reagents enable clear discrimination of T cells from B cells, natural killer cells, and myeloid populations. This distinction is essential in studies involving mixed cell populations, where accurate identification of T lymphocytes underpins downstream analyses of immune composition and function.

CD3 epsilon expression is maintained throughout T-cell development, from thymocyte stages to mature peripheral T cells. This consistent expression pattern supports the use of CD3e Antibody / T Lymphocyte Identification Marker Antibody in developmental studies, lineage tracing, and immune system characterization. Detection of CD3 epsilon provides a stable marker for following T-cell populations across different biological contexts.

In tissue-based analyses, CD3e antibody reagents enable visualization of T lymphocytes within lymphoid organs and peripheral tissues. Identification of CD3-positive cells supports analysis of immune cell distribution, tissue organization, and cellular architecture. This is particularly useful for understanding how T cells are positioned within complex tissue environments.

In cell-based studies, CD3e antibody reagents are used to quantify T-cell populations and establish baseline immune composition. Accurate identification of T lymphocytes supports a wide range of applications, including studies of immune homeostasis, disease-associated changes in lymphocyte populations, and responses to experimental manipulation.

CD3e Antibody / T Lymphocyte Identification Marker Antibody provides a reliable and lineage-defining tool for identifying T cells, supporting research focused on immune system organization, cellular identity, and lymphocyte population analysis.

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 / T Lymphocyte Identification Marker Antibody should be determined by the researcher.

Immunogen

Amino acids RKGQRDLYSGLNQR were used as the immunogen for this CD3e Antibody / T Lymphocyte Identification Marker Antibody. The amino acid sequence used as immunogen is from the cytoplasmic portion of the protein.

Storage

Aliquot and store the CD3e antibody at -20oC.

Alternate Names

CD3E antibody, CD3 T lymphocyte marker antibody, CD3 immune cell identification antibody, CD3 lymphocyte detection antibody, CD3 T cell identification antibody

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