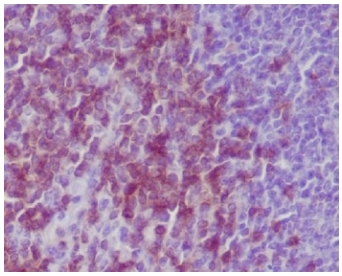
CD3e Antibody / Immune Cell Profiling Marker Antibody [clone COB-3] (RQ5184)

Catalog No.	Formulation	Size
RQ5184	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	Mouse
Format	Purified
Host	Rabbit
Clonality	Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	COB-3
Purity	Affinity purified
UniProt	P07766
Applications	Immunohistochemistry (FFPE): 1:50-1:200
Limitations	This CD3e antibody is available for research use only.



CD3e Antibody. Immunohistochemistry analysis of CD3 Epsilon / CD3E antibody in FFPE mouse spleen tissue using CD3e Antibody / Immune Cell Profiling Marker Antibody. Strong HRP-DAB brown membranous and cytoplasmic staining is observed in T lymphocytes distributed throughout splenic white pulp regions, consistent with T-cell localization within lymphoid follicles and periarteriolar lymphoid sheaths, while surrounding non-lymphoid areas show minimal background. The staining supports identification of CD3-positive T-cell populations within the broader immune cell landscape. Heat-induced epitope retrieval was performed by boiling tissue sections in pH 6, 10 mM citrate buffer for 10-20 minutes followed by cooling prior to antibody incubation.

Description

CD3 epsilon (CD3E) is a key component of the T-cell receptor (TCR) complex that is expressed on T lymphocytes and is essential for immune function. CD3e Antibody / Immune Cell Profiling Marker Antibody enables detection of CD3 Epsilon / CD3E and is widely used to characterize T-cell populations within broader immune profiling studies. CD3e antibody, also

known as CD3 epsilon antibody or CD3E antibody, is commonly referred to as an immune cell profiling marker antibody because it enables integration of T-cell detection into multi-parameter immune analyses.

This CD3e Antibody is uniquely positioned for comprehensive immune profiling applications where detailed characterization of immune cell populations is required. CD3 epsilon forms part of the CD3 complex that defines T-cell identity and function. Detection of CD3 epsilon provides a foundational marker for identifying T cells within complex immune systems and serves as a key anchor for downstream analysis.

As an immune cell profiling marker antibody, CD3e antibody reagents enable incorporation of T-cell detection into multi-marker panels designed to evaluate immune composition. Identification of CD3-positive cells allows researchers to define T-cell populations and integrate them into broader analyses that include B cells, myeloid cells, and other immune subsets.

CD3 epsilon detection is essential for distinguishing T cells from other immune cell types, providing a critical first step in immune profiling workflows. Once T cells are identified, additional markers can be used to define subsets such as helper, cytotoxic, or regulatory T cells. CD3e Antibody / Immune Cell Profiling Marker Antibody supports this layered approach by providing consistent detection of the core T-cell population.

In experimental applications, CD3e antibody reagents are used in combination with other markers to generate detailed immune profiles across tissues, blood samples, and cultured cell systems. This supports studies of immune system organization, disease-associated changes in immune composition, and responses to therapeutic interventions.

CD3e antibody also enables quantitative assessment of T-cell populations within larger immune datasets, supporting comparative analysis across conditions or experimental groups. This makes it a valuable tool for studies requiring detailed immune characterization.

CD3e Antibody / Immune Cell Profiling Marker Antibody provides a reliable and integrative tool for analyzing T-cell populations within complex immune systems, supporting research focused on immune profiling, cellular composition, and system-level immune 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 / Immune Cell Profiling Marker Antibody should be determined by the researcher.

Immunogen

A synthetic peptide specific to mouse CD3 epsilon / CD3E was used as the immunogen for the CD3e Antibody / Immune Cell Profiling Marker Antibody.

Storage

Store the CD3e antibody at -20oC.

Alternate Names

CD3E antibody, CD3 immune profiling antibody, CD3 T cell profiling marker antibody, CD3 immune analysis antibody, CD3 lymphocyte profiling antibody

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