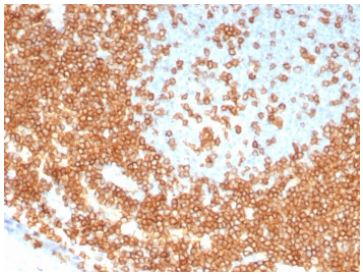
CD3 epsilon Antibody Recombinant Rabbit Monoclonal Clone C3e/8115R / CD3e Antibody [clone C3e/8115R] (V4205)

Catalog No.	Formulation	Size
V4205-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4205-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4205SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

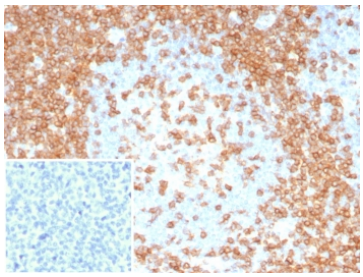
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	C3e/8115R
Purity	Protein A/G affinity
UniProt	P07766
Localization	Cell surface, Cytoplasm
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 minutes at RT
Limitations	This recombinant CD3 epsilon antibody is available for research use only.



CD3 epsilon Antibody Recombinant Rabbit Monoclonal. Immunohistochemistry analysis of CD3 Epsilon / CD3E antibody in FFPE human tonsil tissue using CD3 epsilon Antibody Recombinant Rabbit Monoclonal Clone C3e/8115R. Strong HRP-DAB brown membranous and cytoplasmic staining is observed in T lymphocytes within interfollicular and paracortical regions, consistent with T-cell zone distribution, while surrounding non-lymphoid cells show minimal background. The staining highlights dense T-cell populations within lymphoid architecture and demonstrates clear signal definition with low non-specific staining. Heat-induced epitope retrieval was performed by boiling tissue sections in pH 9 10 mM Tris with 1 mM EDTA for 20 minutes followed by cooling prior to antibody incubation.



CD3 epsilon Antibody Recombinant Rabbit Monoclonal. Immunohistochemistry analysis of CD3 Epsilon / CD3E antibody in FFPE human tonsil tissue using CD3 epsilon Antibody Recombinant Rabbit Monoclonal Clone C3e/8115R. Strong HRP-DAB brown membranous and cytoplasmic staining is observed in T lymphocytes within interfollicular and paracortical regions, consistent with T-cell zone distribution, while surrounding non-lymphoid cells show minimal background. The inset shows the negative control with PBS used in place of the primary antibody, demonstrating absence of non-specific staining. Heat-induced epitope retrieval was performed by boiling tissue sections in pH 9 10 mM Tris with 1 mM EDTA for 20 minutes followed by cooling prior to antibody incubation.

Description

CD3 epsilon (CD3E) is a transmembrane signaling component of the T-cell receptor (TCR) complex that is consistently expressed in T lymphocytes and is essential for antigen recognition and downstream signal transduction. CD3 epsilon Antibody Recombinant Rabbit Monoclonal using Clone C3e/8115R is designed for high-performance detection of CD3E, combining strong target recognition with the reproducibility advantages of recombinant antibody technology. CD3e antibody, also known as CD3 epsilon antibody or CD3E antibody, is widely recognized as a pan-T cell marker antibody and is frequently used to identify T-cell populations across research applications.

CD3 epsilon forms part of the CD3 complex together with CD3 gamma, CD3 delta, and CD3 zeta chains, which associate with the TCR alpha-beta or gamma-delta heterodimer at the cell surface. This complex is responsible for initiating intracellular signaling cascades following antigen engagement, regulating T-cell activation, proliferation, and differentiation. Because of its central role in T-cell biology, CD3 epsilon is a critical target for studying immune responses and lymphocyte function.

CD3 epsilon Antibody Recombinant Rabbit Monoclonal is uniquely positioned for applications requiring high sensitivity and strong signal definition. Clone C3e/8115R provides high-affinity epitope recognition typical of rabbit monoclonal antibodies, enabling robust detection even in samples with variable or lower expression levels. This enhanced binding capability supports clearer signal generation and improves confidence in target identification across experimental conditions.

The recombinant format of Clone C3e/8115R provides an additional level of performance consistency. Because recombinant antibodies are produced from defined sequences, they eliminate variability associated with traditional hybridoma production and support strong lot-to-lot reproducibility. This is particularly important in western blot, immunofluorescence, or comparative studies where consistent signal intensity and binding behavior are required over time.

In practical applications, CD3e antibody reagents are used to identify T-cell populations in a wide range of sample types, including blood-derived cells, lymphoid tissues, and cultured systems. Clone C3e/8115R contributes to these applications by delivering strong, reproducible detection of CD3 epsilon with improved signal-to-background characteristics. The ability to generate clear and well-defined signal enhances interpretability, particularly in complex biological samples.

Recombinant rabbit monoclonal antibodies are also known for producing cleaner backgrounds compared to traditional formats, reducing non-specific signal and improving analytical clarity. This makes Clone C3e/8115R especially useful in workflows where precise signal discrimination is required, such as multiplex assays or low-abundance target detection.

As a recombinant rabbit monoclonal antibody, Clone C3e/8115R combines high-affinity binding with reproducible manufacturing, providing a reliable and high-performance tool for detecting CD3 epsilon. The CD3 epsilon Antibody Recombinant Rabbit Monoclonal is well suited for studies of T-cell biology, immune signaling, and protein detection requiring strong signal quality and consistent results.

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 Recombinant Rabbit Monoclonal Clone C3e/8115R should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 1-200) from the human protein was used as the immunogen for the CD3 epsilon Antibody Recombinant Rabbit Monoclonal Clone C3e/8115R.

Storage

Aliquot the recombinant CD3 epsilon antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

CD3E antibody, CD3 epsilon recombinant rabbit antibody, CD3 recombinant rabbit monoclonal antibody, CD3 high affinity antibody, CD3 T cell marker antibody

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