

Anti-CD3 epsilon/CD3e Antibody (8Z76)

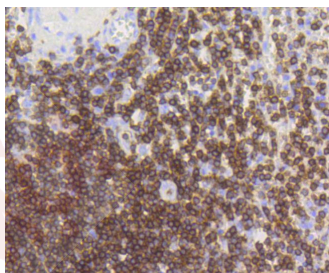
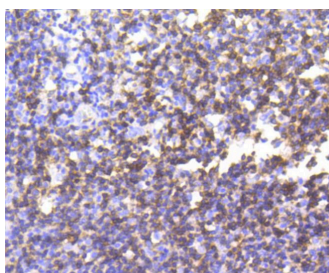
Product Details

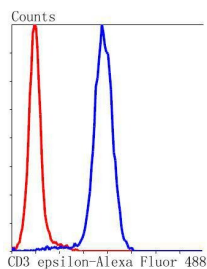
Ig Type:	IgG
Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 23 kDa.
Clone:	8Z76
Purification:	ProA affinity purified

Applications

Verified Activity:

1. Western blot analysis of CD3 epsilon on different lysates using anti-CD3 epsilon antibody at 1/1,000 dilution. Positive control: Lane 1: Jurkat, Lane 2: Human thymus.
2. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-CD3 epsilon antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-CD3 epsilon antibody. Counter stained with hematoxylin.
4. Flow cytometric analysis of Jurkat cells with CD3 epsilon antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.





Application: FCM,IHC,IP,WB

Recommended WB: 1:1000-2000; IHC: 1:50-200; FCM: 1:50-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P07766

Synonyms: CD3 epsilon;CD3 ϵ ;TCRE;CD3e molecule, epsilon (CD3-TCR complex);T3E;CD3 ϵ /CD3e;IMD18; CD3e molecule, ϵ (CD3-TCR complex)

Research Background

The T cell antigen receptor (TCR) recognizes foreign antigens and translates such recognition events into intracellular signals that elicit a change in the cell from a dormant to an activated state. Much of this signaling process can be attributed to a multisubunit complex of proteins that associates directly with the TCR. This complex has been designated CD3 (cluster of differentiation 3). CD3 is composed of four polypeptides: ζ , γ , ϵ and δ . Each of these polypeptides contains at least one immunoreceptor tyrosine-based activation motif (ITAM). Engagement of TCR complex with foreign antigens induces tyrosine phosphorylation in the ITAM motifs and phosphorylated ITAMs function as docking sites for signaling molecules such as ZAP-70 and p85 subunit of PI-3 kinase. TCR ligation also induces a conformational change in CD3 ϵ , such that a proline region is exposed and then associates with the adaptor protein Nck.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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