

Product Datasheet

CD3 epsilon Antibody

Catalog No: CY5281

Reactivity: Human

Isotype: Rabbit IgG

Applications: WB IHC ICC/IF IP



Information

UniProt ID: P07766

All Names: CD3ε; FLJ18683; T3E; TCRE; CD3 epsilon;

Form: Liquid

Storage instructions: Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Storage buffer: pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Purity: Affinity-chromatography

Immunogen: Synthesized peptide

Molecular Wt.: 23 kDa

Application

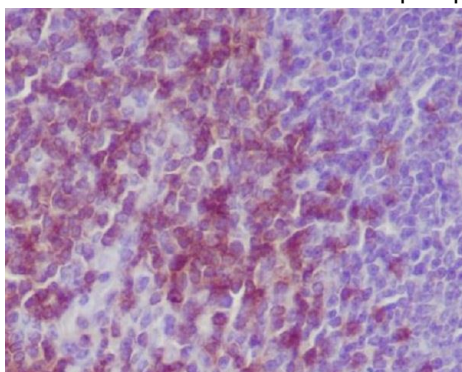
IHC 1:50~1:200

ICC/IF 1:50~1:200

IP 1:50

Background

The CD3 complex mediates signal transduction. When T cells encounter antigens via the T cell receptor (TCR), information about the quantity and quality of antigens is relayed to the intracellular signal transduction machinery. This activation process depends mainly on CD3 (Cluster of Differentiation 3), a multiunit protein complex that directly associates with the TCR. 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 CD3ε, such that a proline-region is exposed and then associates with the adapter protein Nck.



Immunohistochemical analysis of paraffin-embedded Human spleen, using CD3 epsilon Antibody.

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