



Product Specification Sheet

CD3 antibody

Cat # HCD311-A

Rabbit Anti-Human CD3 antibody

SIZE: 100 µg

CD3 has four peptide chains (gamma, delta, epsilon, and zeta) that form CD3. Defects in CD3 are associated with T cell immunodeficiency. CD3 complex mediates signal transduction.

Source of Antigen or Antibodies

Uniprot: P07766

Host: Rabbit

Clonality: Polyclonal

Purification: Ammonium sulfate followed by peptide affinity chromatography

Immunogen: 18 amino acid synthetic peptide derived from the cytoplasmic region of Human CD3

Species reactivity: Human

Cross reactivity: The peptide used as an immunogen exhibits 100% homology with Non-human primates. 94% Mouse. 88% Pig and Rat. 82% Goat, Sheep, and Bovine.

Subcellular Location: Plasma membrane

Alternative names: T-cell surface antigen T3/Leu-4 epsilon chain. CD3e

Recommended Secondary Antibody: Goat anti-Rabbit IgG-HRP (ADI cat#20320)

Form & Storage of Antibodies

Affinity pure IgG Solution

Concentration: 0.5 mg/ml Volume: 200 µl

Supplied in PBS, pH 7.4 + 0.1% BSA

The antibody can be made available carrier free or conjugated to HRP, Biotin, or FITC on request

Lyophilized powder

Reconstitute powder in 200 µl distilled water to 0.5 mg/ml

Storage:

Short-term: 4°C for 1 month

Long-term: at -20°C or below in suitable aliquots after reconstitution for 1 year. Do not expose to multiple freeze/thaw cycles or store working, diluted solutions. Glycerol may be added to a final concentration of 50% and antibodies can be stored un-aliquoted at -20°C.

Recommended Usage

Western Blotting: 0.5-2.0 µg/ml

Immunohistochemistry: 1-10 µg/ml. QC tested using 10 mM sodium citrate pH 6, antigen retrieval buffer. The antibody may work better with no retrieval or different retrieval solutions.

The above concentrations are a *suggestion*, user's must optimize their assay based on their own conditions. The antibody may work in other applications such as Immunofluorescence. These methods have not been tested by ADI.

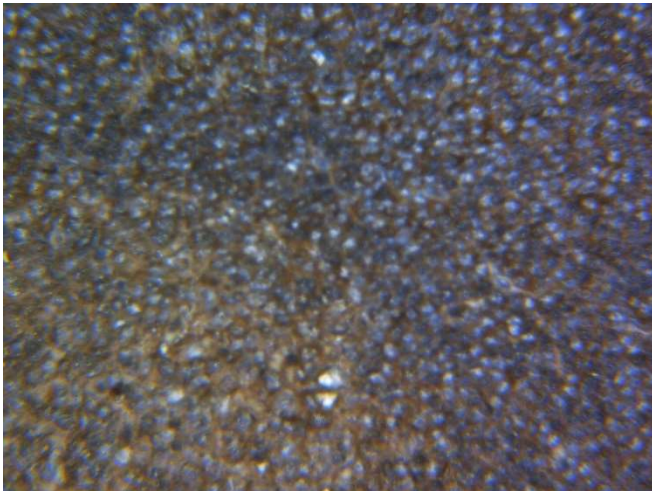
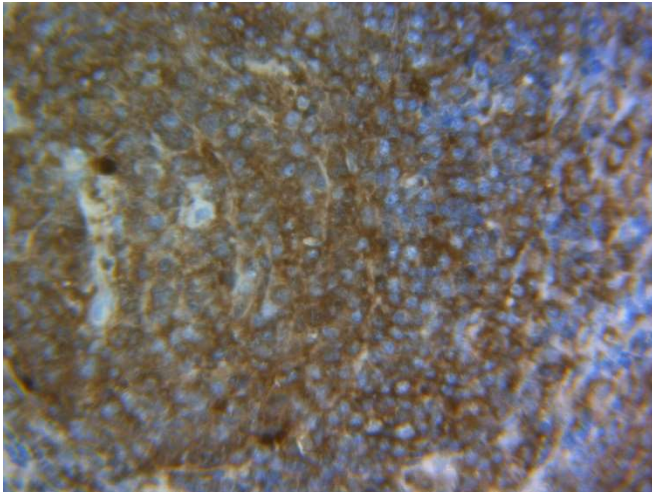
**This product is for In vitro research use only.*

Related materials available from ADI

Catalog#	Description
AB-13810	Mouse Monoclonal Anti-Human CD3-biotinylated IgG
AB-17510	Rat Monoclonal Anti-Mouse CD3 IgG
CD03-D2-50 PE	Mouse Monoclonal Anti-Human CD3 FITC/CD16
CD03-D3-50 PE	Mouse Monoclonal Anti-Human CD3 FITC/CD19
CD03-D4-50 PE	Mouse Monoclonal Anti-Human CD3 FITC/CD4
CD03-D5-50 PE	Mouse Monoclonal Anti-Human CD3 FITC/CD8
CD03P-100 conjugate	Mouse Monoclonal Anti-Human CD3-PE
CD03PC-100 conjugate	Mouse Monoclonal Anti-Human CD3-PE-Cy5-
CD03UL-100 unlabeled	Mouse Monoclonal Anti-Human CD3 IgG, unlabeled

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Immunohistochemistry: FFPE Human Spleen and Lymph node slides were heated for 20 minutes at 60°C then deparaffinized. Antigen retrieval was performed for 10 minutes at 95°C in a microwave using 10 mM pH 6, sodium citrate buffer. The slide was then cooled for 20 minutes at room temperature before being blocked for 30 minutes with 2.5% normal goat serum. **HCD311-A** was diluted to 5 µg/ml in TBST+0.1% BSA and incubated overnight at 4°C. The slides were then washed twice and incubated with 3% hydrogen peroxide for 10 minutes to quench endogenous peroxidase. The slide was washed then incubated with Goat anti-Rabbit IgG HRP polymer detection reagent for 30 minutes at room temperature. The slide was washed twice, incubated with DAB for 3 minutes, washed with distilled water, then counterstained for 1 minute with Gil's II Hematoxylin before being cover-slipped.