

## Rat Anti-Mouse CD3 Clone 3B19 mAb

**Catalog No.** CMC422 **Quantity:** 200 µg

**Description:** Rat Anti-mouse CD3 Clone 3B19 Monoclonal Antibody.  
 The T cell receptor (TCR)/CD3 complex consists of two variable antigen-recognition receptor chains (TCR-alpha/TCR-beta or TCR-gamma/TCR-delta) that are non-covalently linked to at least four different invariant chains: CD3 gamma, CD3 delta, CD3 epsilon, and the CD3 zeta chain that exists as either a homodimer or as a heterodimer with its splice-variant the CD3 eta chain. The CD3 complex functions to transduce intracellular signals during TCR antigen recognition. CD3 is expressed early in thymocyte development, and on a subset of NK cells. CD3 epsilon is one of at least three invariant proteins that associate with the variable antigen recognition chains of the T cell receptor and function in signal transduction.

**Gene ID:** 12503

**Specificity:** Recognizes mouse CD3

**Host:** Rat

**Immunogen:** CD3 positive T-cells

**Isotype:** IgG2b

**Clone:** 3B19

**Formulation:** Lyophilized from a 0.2 µm sterile filtered solution in PBS

**Purification:** Protein G affinity chromatography

**Reconstitution:** **Centrifuge vial prior to opening.** Add 400 µl sterile distilled water to the vial to fully solubilize the antibody to a concentration of 500 µg/ml.

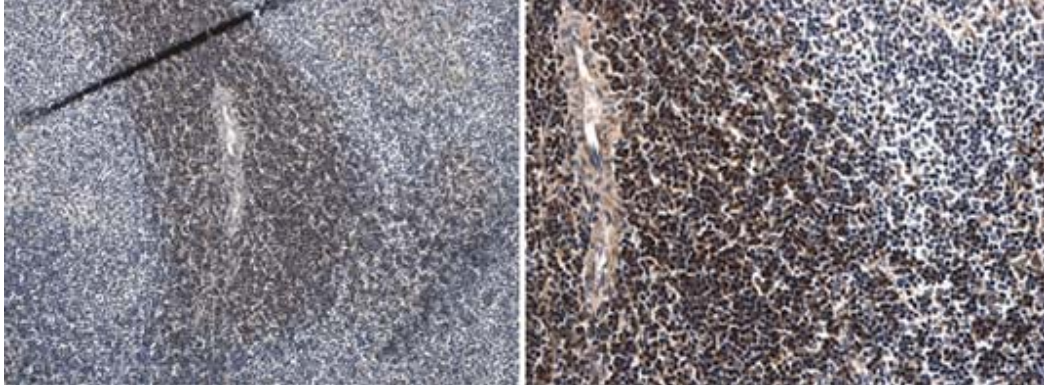
**Applications:** Flow Cytometry: working dilution of 1:100-500  
 Immunoprecipitation: working dilution of 1:100  
 The optimal concentration should be determined by the user for each specific application.

**Suggested Application:** Immunohistochemistry (Paraffin): working dilution of 1:50-400.  
 Optimal results are user dependent.

**Storage & Stability:** Store lyophilized antibody at -80°C. Reconstituted antibody is stable for six months in working aliquots at -80°C. **Avoid repeated freeze-thaw cycles.**



4% PFA fixed and paraffin embedded mouse spleen section from LPS treated mice was subjected to immunohistochemistry staining (DAB) of CD3. The periaarteriolar sheath is stained.



**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**