

## Technical Data Sheet

### Functional Grade Anti-Mouse CD3

**Catalog Number:** 200203, 200204

**Size:** 1 mg, 5 mg

**Target Name:** CD3, T cell antigen receptor complex, T3

**Regulatory Status:** RUO

#### Product Details

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**Clone:** 145-2C11

**Application:** FA

**Reactivity:** Mouse

**Format:** LENP

**Isotype:** Armenian Hamster IgG

**Antibody Type:** Monoclonal

**Formulation:** Phosphate-buffered solution, pH 7.2, with endotoxin level is less than 0.1Eu/ug as determined by LAL test.

**Protein Concentration:** The 1 mg size is provided at a concentration of 1 mg/mL. Other sizes are supplied at lot-specific concentrations.

**Storage and Handling:** Store the antibody undiluted at 2°C to 8°C. This LENP-grade (Low Endotoxin, No Preservative) antibody is preservative-free and should be handled using aseptic techniques.

#### Background Information

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CD3 (cluster of differentiation 3) is a protein complex and T cell co-receptor that is involved in activating both the cytotoxic T cell (CD8+ naive T cells) and T helper cells (CD4+ naive T cells). CD3 is a member of the Ig superfamily and primarily expressed on T cells, NK-T cells, and at different levels on thymocytes during T cell differentiation. CD3 is composed of CD3 $\epsilon$ ,  $\delta$ ,  $\gamma$  and  $\zeta$  chains. It forms a TCR complex by associating with TCR  $\alpha\beta$  or  $\gamma\delta$  chains. CD3 plays a critical role in TCR signal transduction, T cell activation, and antigen recognition by binding the peptide/MHC antigen complex