

## Anti-Mouse CD3 Recombinant Antibody [PSH04-98] - Rabbit IgG (Chimeric)

# HA723347



<b>Product Type:</b>	Recombinant Chimeric Antibody IgG, primary antibodies
<b>Species reactivity:</b>	Mouse
<b>Applications:</b>	FC
<b>Molecular Wt:</b>	Predicted band size: 21 kDa
<b>Clone number:</b>	PSH04-98

**Description:** 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). It is composed of four distinct chains. In mammals, the complex contains a CD3 $\gamma$  chain, a CD3 $\delta$  chain, and two CD3 $\epsilon$  chains. These chains associate with the T-cell receptor (TCR) and the CD3-zeta ( $\zeta$ -chain) to generate an activation signal in T lymphocytes. The TCR, CD3-zeta, and the other CD3 molecules together constitute the TCR complex.

**Immunogen:** Recombinant protein.

**Positive control:** Mouse peripheral blood.

**Subcellular location:** Cell membrane.

**Database links:** SwissProt: P22646 Mouse

**Recommended Dilutions:**

FC 1:1,000

**Storage Buffer:** 1\*PBS (pH7.4).

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

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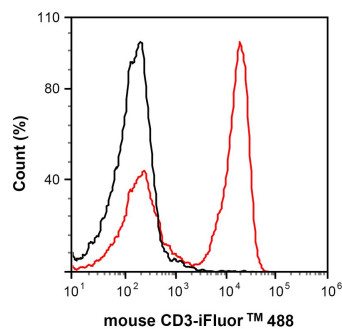
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## Images



**Fig1:** Flow cytometric analysis of mouse peripheral blood cells labeling Mouse CD3.

Cells were stained with the primary antibody (HA723347, 1µg/mL) (red). After incubation of the primary antibody at +4°C for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Rabbit IgG Secondary antibody (HA1121) at 1/1,000 dilution for 30 minutes at +4°C. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

**Note:** All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

## Background References

1. LeFevre JD et al. Anti-CD3 monoclonal antibodies for the prevention and treatment of type 1 diabetes: A literature review. *Am J Health Syst Pharm*. 2022 Nov
2. Chen Y et al. Cholesterol inhibits TCR signaling by directly restricting TCR-CD3 core tunnel motility. *Mol Cell*. 2022 Apr

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