

# PE Rabbit anti-Mouse CD5 mAb

**Catalog No.: A27324**

## Basic Information

**Observed MW****Calculated MW**

54kDa

**Category**

Primary antibody

**Applications**

FC

**Cross-Reactivity**

Mouse

**CloneNo number**

ARC61614

**Conjugate**

PE. Ex:565nm. Em:574nm.

## Background

CD5 is a type I transmembrane protein belonging to the scavenger receptor cysteine-enriched (SRCR) family, characterized by the presence of at least one SRCR domain containing 90-110 amino acids. CD5 is expressed in all mature T cells, B-1A subsets of mature B cells, and certain leukemia B cells. It is elevated in regulatory T and B cells (Tregs/Bregs). CD5 expression was also elevated in incompetent T and B cells. Elevated levels of CD5 have also been found in many autoimmune diseases. CD5 binds to T cell receptors (TCR) and negatively regulates T cell activation and differentiation. The expression of CD5 in tumor-infiltrating T lymphocytes was negatively correlated with their antitumor activity. Recently, it has been reported that CD5 binds directly to IL6 and mediates downstream signal transduction. CD5+ B cells promote tumor growth in animal models. Agents targeting CD5 are being actively explored as therapeutic interventions for cancer and other conditions.

## Recommended Dilutions

**FC**                    ≤0.5 µg per million cells in  
                                 100 µl volume

## Immunogen Information

**Gene ID**

12507

**Swiss Prot**

P13379

**Immunogen**

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

**Synonyms**

Ly-1; Ly-A; Ly-12; Lyt-1

## Contact

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## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

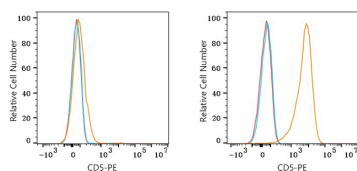
Affinity purification

**Storage**

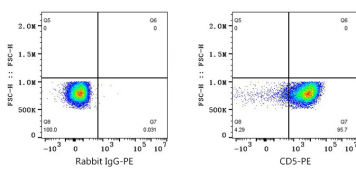
Store at 2-8°C. Avoid freeze.

Buffer: PBS with 0.09% Sodium azide, 0.2% BSA, pH7.3.

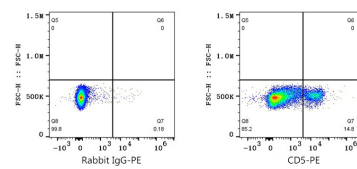
## Validation Data



Flow cytometry:  $1 \times 10^6$  A20 cells (negative control, left) and CTLL-2 cells (right) were surface-stained with PE Rabbit anti-Mouse CD5 mAb (A27324, 0.5  $\mu$ g, orange line) or PE Rabbit IgG isotype control (A24172, 0.5  $\mu$ g, blue line). Non-fluorescently stained cells were used as blank control (red line).



Flow cytometry:  $1 \times 10^6$  CTLL-2 cells were surface-stained with PE Rabbit IgG isotype control (A24172, 0.5  $\mu$ g, left) or PE Rabbit anti-Mouse CD5 mAb (A27324, 0.5  $\mu$ g, right).



Flow cytometry:  $1 \times 10^6$  C57BL/6 mouse Splenocytes were surface-stained with PE Rabbit IgG isotype control (A24172, 0.5  $\mu$ g, left) or PE Rabbit anti-Mouse CD5 mAb (A27324, 0.5  $\mu$ g, right). Cells in the lymphocyte gate were used for analysis.