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Biotin Rabbit anti-Mouse CD5 mAb

Catalog No.: A27413

Basic Information

Observed MW

Calculated MW
54kDa

Category
Primary antibody

Applications
FC

Cross-Reactivity
Mouse

CloneNo number
ARC61614

Conjugate
Biotin

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	5 µl per 10^6 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

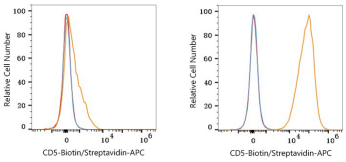
Source
Rabbit

Isotype
IgG

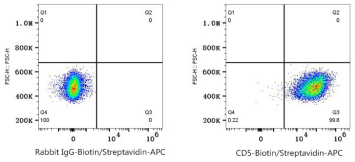
Purification
Affinity purification

Storage
Store at 2-8℃. Avoid freeze.
Buffer: PBS with 0.09% Sodium azide,0.2% BSA,pH7.3.

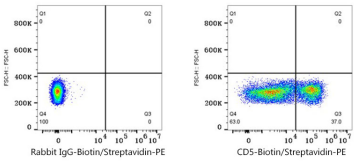
Validation Data



Flow cytometry: 1X10^6 A20 cells (negative control,left) and CTLL-2 cells (right) were surface-stained with Biotin Rabbit anti-Mouse CD5 mAb (A27413,5 µl/Test,orange line) or Biotin Rabbit IgG isotype control (A25626,5 µl/Test,blue line), followed by APC Streptavidin staining. Non-fluorescently stained cells were used as blank control (red line).



Flow cytometry: 1X10^6 CTLL-2 cells were surface-stained with Biotin Rabbit IgG isotype control (A25626,5 µl/Test,left) or Biotin Rabbit anti-Mouse CD5 mAb (A27413,5 µl/Test,right), followed by APC Streptavidin staining.



Flow cytometry: 1X10^6 C57BL/6 mouse splenocytes were surface-stained with Biotin Rabbit IgG isotype control (5 µl/Test,left) or Biotin Rabbit anti-Mouse CD5 mAb (A27413,5 µl/Test,right), followed by PE Streptavidin staining.