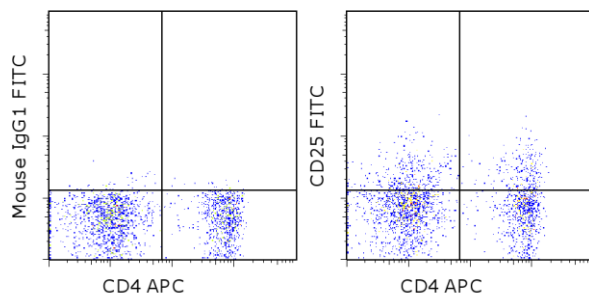


Anti-Canine CD25 FITC

Catalog Number: 11-0250

Also known as: Interleukin-2 Receptor alpha

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of normal canine peripheral blood cells with Anti-Canine CD4 APC (cat. 17-5040) and Mouse IgG1 K Isotype Control FITC (cat. 11-4714) (left) or Anti-Canine CD25 FITC (right). Cells in the lymphocyte gate were used for analysis.

Product Information



Contents: Anti-Canine CD25 FITC

Catalog Number: 11-0250

Clone: P4A10

Concentration: 5 µL (0.5 µg)/test

Host/Isotype: Mouse IgG1, kappa



Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.



Batch Code: Refer to vial



Use By: Refer to vial

Contains sodium azide

Description

This P4A10 monoclonal antibody reacts with canine CD25, the 55-kDa interleukin-2 receptor alpha (IL-2R α) chain. As in humans and mice, CD25 in dogs is expressed by early T and B lineage progenitors as well as by activated mature T and B lymphocytes. CD25 associates with the IL-2R beta (CD122) and gamma (CD132) chains to form the high-affinity IL-2 receptor. On its own, CD25 binds IL-2 with low affinity. Along with CD4 and Foxp3, CD25 is a major marker used to define regulatory T cells.

The P4A10 antibody has been reported to recognize the same epitope as the anti-human CD25 monoclonal antibody ACT-1, but with greater affinity.

Applications Reported

This P4A10 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This P4A10 antibody has been pre-titrated and tested by flow cytometry on normal canine peripheral blood cells. This can be used at 5 µL (0.5 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

References

Bismarck D, Schütze N, Moore P, Büttner M, Alber G, Buttlar HV. Canine CD4(+)CD8(+) double positive T cells in peripheral blood have features of activated T cells. Vet Immunol Immunopathol. 2012 Oct 15;149(3-4):157-66 (P4A10, FC, Pubmed)

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Mizuno T, Suzuki R, Umeki S, Okuda M. Crossreactivity of antibodies to canine CD25 and Foxp3 and identification of

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canine CD4+CD25+Foxp3+ cells in canine peripheral blood. J Vet Med Sci. 2009 Dec;71(12):1561-8.

Helfand SC, Modiano JF, Nowell PC. Immunophysiological studies of interleukin-2 and canine lymphocytes. Vet Immunol Immunopathol. 1992 Jun;33(1-2):1-16.

Related Products

00-4300 10X RBC Lysis Buffer (Multi-species)

11-4714 Mouse IgG1 K Isotype Control FITC (P3.6.2.8.1)

17-5040 Anti-Canine CD4 APC (YKIX302.9)

45-5773 Anti-Mouse/Rat Foxp3 PerCP-Cy5.5 (FJK-16s)