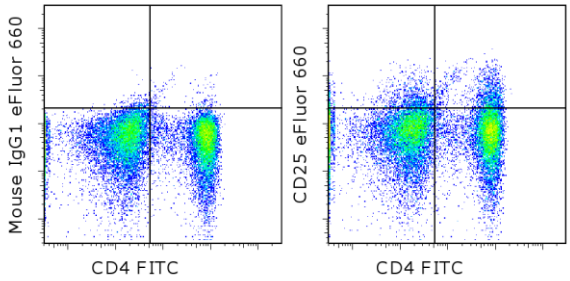
Anti-Canine CD25 eFluor® 660

Catalog Number: 50-0250
Also known as: Interleukin-2 Receptor alpha, IL-2Ra, IL2Ra
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of normal canine peripheral blood cells with Anti-Canine CD4 FITC (cat. 11-5040) and Mouse IgG1 K Isotype Control eFluor® 660 (cat. 50-4714) (left) or Anti-Canine CD25 eFluor® 660 (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Canine CD25 eFluor® 660
REF **Catalog Number:** 50-0250
Clone: P4A10
Concentration: 5 uL (0.125 ug)/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.
LOT **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-2Rα) 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 cytometric analysis of normal canine peripheral blood lymphocytes. This can be used at 5 µL (0.125 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 10^5 to 10^8 cells/test.

eFluor® 660 is a replacement for Alexa Fluor® 647. eFluor® 660 emits at 659 nm and is excited with the red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochome.

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)

Abrams VK, Hwang B, Lesnikova M, Gass MJ, Wayner E, Castilla-Llorente C, Georges GE, Nash RA. A novel

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monoclonal antibody specific for canine CD25 (P4A10): selection and evaluation of canine Tregs. Vet Immunol Immunopathol. 2010 Jun 15;135(3-4):257-65. (**P4A10**, FC, WB, Pubmed)

Mizuno T, Suzuki R, Umeki S, Okuda M. Crossreactivity of antibodies to canine CD25 and Foxp3 and identification of 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
11-5040 Anti-Canine CD4 FITC (YKIX302.9)
12-5773 Anti-Mouse/Rat Foxp3 PE (FJK-16s)
50-4714 Mouse IgG1 K Isotype Control eFluor® 660 (Alexa Fluor® 647 Replacement) (P3.6.2.8.1)

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