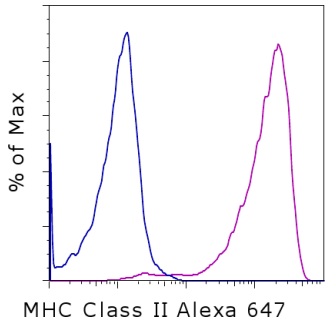
Anti-Canine MHC Class II Alexa Fluor® 647

Catalog Number: 51-5909
Also known as: MHC II
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of normal canine peripheral blood cells with Rat IgG2a K Isotype Control Alexa Fluor® 647 (blue histogram) or Anti-Canine MHC Class II Alexa Fluor® 647 (purple histogram). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Canine MHC Class II Alexa Fluor® 647
REF **Catalog Number:** 51-5909
Clone: YKIX334.2
Concentration: 5 uL (0.5 ug)/test
Host/Isotype: Rat IgG2a, 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 YKIX334.2 monoclonal antibody reacts with canine major histocompatibility complex (MHC) Class II. The MHC plays a significant role in immunity by presenting self and non-self antigens to T cells. In dogs, MHC Class II is expressed on all T and B cells, macrophages, fibroblasts, and kidney interstitial cells.

This monoclonal antibody has been reported to inhibit mixed lymphocyte reactions and T cell activation induced by MHC Class II antigen presentation in vitro. Also, YKIX334.2 recognition of MHC Class II is not allele-specific.

Applications Reported

This YKIX334.2 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This YKIX334.2 antibody has been pre-titrated and tested by flow cytometric analysis of 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 10^5 to 10^8 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 (**YKIX334.2**, FC, Pubmed)

Cobbold S, Metcalfe S. Monoclonal antibodies that define canine homologues of human CD antigens: summary of the First International Canine Leukocyte Antigen Workshop (CLAW). Tissue Antigens. 1994 Mar;43(3):137-54. (**YKIX334.2**, FC)

Rabanal RM, Ferrer L, Else RW. Immunohistochemical detection of canine leucocyte antigens by specific monoclonal antibodies in canine normal tissues. Vet Immunol Immunopathol. 1995 Jul;47(1-2):13-23.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.ebioscience.com • info@ebioscience.com

Anti-Canine MHC Class II Alexa Fluor® 647

Catalog Number: 51-5909
Also known as: MHC II
RUO: For Research Use Only. Not for use in diagnostic procedures.

Doveren RF, van der Linden CJ, Spronken EE, Groenewegen G, Buurman WA. Canine MHC-class II antigens on B and T lymphocytes. Tissue Antigens. 1986 Feb;27(2):87-98.

Related Products

51-4321 Rat IgG2a K Isotype Control Alexa Fluor® 647 (To Be Discontinued. Refer to Cat. No. 50-4321) (eBR2a)

Legal

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.ebioscience.com • info@ebioscience.com