



Biotinylated Anti-canine CD4 Antibody

ORDERING INFORMATION

Catalog Number: BAF2410

Lot Number: URQ01

Size: 50 µg

Formulation: 0.2 µm filtered solution in PBS with BSA

Storage: -20° C

Reconstitution: sterile 0.1% BSA in TBS

Specificity: canine CD4 extracellular domain

Immunogen: NS0-derived rcaCD4 extracellular domain

Ig Type: goat IgG

Applications: Western blot
Immunocytochemistry
Flow cytometry

Preparation

Produced in goats immunized with purified, NS0-derived, recombinant canine CD4 (rcaCD4) extracellular domain. Canine CD4 specific IgG was purified by canine CD4 affinity chromatography and then biotinylated. CD4 is a type I membrane protein belonging to the immunoglobulin superfamily. It functions as an accessory protein for T cell receptor/MHC class II antigen interaction.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg of bovine serum albumin (BSA) per 1 µg of antibody.

Reconstitution

Reconstitute with sterile Tris-buffered saline pH 7.3 (20 mM Trizma base, 150 mM NaCl) containing 0.1% BSA. If 1 mL of buffer is used, the antibody concentration will be 50 µg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody has been selected for use as a detection antibody in the applications listed below.

Applications

Western Blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect canine CD4. The detection limit for rcaCD4 is approximately 10 ng/lane under non-reducing and reducing conditions. In this format, this antibody shows approximately 25% cross-reactivity with rfeCD4, 5% cross-reactivity with rhCD4 and less than 1% cross-reactivity with rmCD4.

Immunocytochemistry - This antibody will detect CD4 in cells. The working dilution is 5 - 15 µg/mL. For chromogenic detection of labeling, use R&D Systems' Cell and Tissue Staining Kits (CTS Series).

Flow cytometry - This antibody can be used at 3 - 10 µg/mL/10⁶ cells with an appropriate secondary reagent for indirect immunofluorescence staining of cells by flow cytometry.

Optimal dilutions should be determined by each laboratory for each application.