

CD8a Monoclonal Antibody (YCATE55.9), Super Bright™ 702, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Dog
Published Species	Dog
Host/Isotype	Rat / IgG1, kappa
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), Super Bright™ 702, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	YCATE55.9
Conjugate	Super Bright™ 702
Excitation/Emission Max	413/702 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4°C, store in dark, DO NOT FREEZE!
RRID	AB_2762422

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (1 µg)/test	1 Publication

Product Specific Information

Description: This YCATE55.9 monoclonal antibody reacts with canine CD8 alpha. This cell surface receptor is expressed either as a heterodimer with the CD8 beta chain (CD8 alpha/beta) or as a homodimer (CD8 alpha/alpha). In dogs, CD8 alpha is expressed on thymocytes, a subset of mature T cells, NK cells, and intestinal intraepithelial lymphocytes (IELs). CD8 binds to MHC class I and plays a role in thymocyte development and mature T cell activation.

This monoclonal antibody has been reported to inhibit cytotoxic T cell generation and function in vitro. In addition, this antibody has been reported to be immunosuppressive in vivo.

Applications Reported: This YCATE55.9 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This YCATE55.9 antibody has been pre-diluted and tested by flow cytometric analysis of normal canine peripheral blood cells. This may be used at 5 µL (1 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.

Super Bright 702 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 702 nm. We recommend using a 710/50 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright

Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

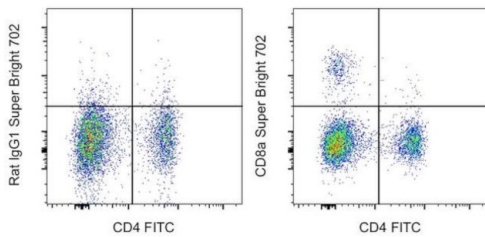
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 μ L of cell sample + 100 μ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 405 nm; Emission: 702 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD8a Monoclonal Antibody (YCATE55.9), Super Bright™ 702, eBioscience™



CD8a Antibody (67-5080-42) in Flow

Normal canine peripheral blood cells were stained with CD4 Monoclonal Antibody, FITC (Product # 11-5040-42) and Rat IgG1 kappa Isotype Control, Super Bright 702 (Product # 67-4301-82) (left) or CD8a Monoclonal Antibody, Super Bright 702 (right). Cells in the lymphocyte gate were used for analysis.

1 Reference

Flow Cytometry (1)

Cancers

Cross-Reactivity and Functionality of Approved Human Immune Checkpoint Blockers in Dogs.

"67-5080 was used in Flow cytometry/Cell sorting to assess suitability of seven FDA-approved human ICIs to target CTLA-4 or PD-1/PD-L1 in dogs."

Authors: Pantelyushin S, Ranninger E, Guerrero D, Hutter G, Maake C, Markkanen E, Bettschart-Wolfensberger R, Rohrer Bley C, Läubli H, Vom Berg J

Year
2021

Species
Dog

Dilution
1:25

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.