

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.

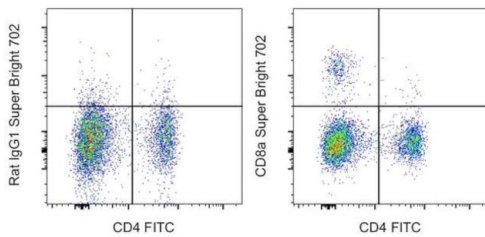
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

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."

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Year
2021

Species
Dog

Dilution
1:25

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