

# CD25 Monoclonal Antibody (P4A10), Super Bright™ 600, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Dog
Published Species	Dog
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Super Bright™ 600, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	P4A10
Conjugate	Super Bright™ 600
Excitation/Emission Max	414/601 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_2717027

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	2 Publications

## Product Specific Information

Description: This P4A10 monoclonal antibody reacts with canine CD25, the 55-kDa interleukin-2 receptor alpha (IL-2Ralpha) 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 cells. 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<sup>5</sup> to 10<sup>8</sup> cells/test.

Super Bright 600 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 600 nm. We recommend using a 610/20 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.

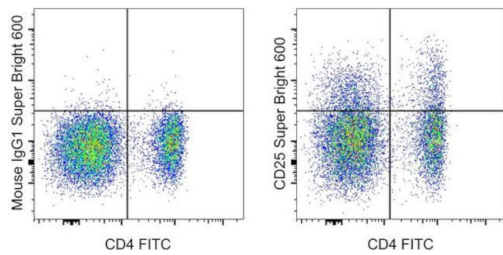
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL of cell sample + 100 µL 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: 600 nm; Laser: Violet Laser

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

## Product Images For CD25 Monoclonal Antibody (P4A10), Super Bright™ 600, eBioscience™



### CD25 Antibody (63-0250-42) in Flow

Staining of normal canine peripheral blood cells with Anti-Canine CD4 FITC (Product # 11-5040-42) and Mouse IgG1 K Isotype Control Super Bright 600 (Product # 63-4714-82) (left) or Anti-Canine CD25 Super Bright 600 (right). Viable cells, determined by 7-AAD (Product # 00-6993-50) were used for analysis.

## 2 References

### Flow Cytometry (2)

#### Oncoimmunology

### Establishing a model system for evaluating CAR T cell therapy using dogs with spontaneous diffuse large B cell lymphoma.

"Published figure using CD25 monoclonal antibody (Product # 63-0250-42) in Flow Cytometry"

Authors: Panjwani MK, Atherton MJ, MaloneyHuss MA, Haran KP, Xiong A, Gupta M, Kulikovsaya I, Lacey SF, Mason NJ

Year  
2021

#### Cancers

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

"63-0250 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  
1:50

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