

CD25 Monoclonal Antibody (OX39), Super Bright™ 702, eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Rat
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Super Bright™ 702, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	OX39
Conjugate	Super Bright™ 702
Excitation/Emission Max	413/702 nm
Form	Liquid
Concentration	0.2 mg/mL
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_2762665

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	2 Publications

Product Specific Information

Description: The OX39 monoclonal antibody reacts with mouse CD25, the 55 kDa interleukin-2 receptor alpha (IL-2R alpha). CD25 is expressed by early progenitors of the T and B lineages as well as by activated mature T and B lymphocytes. By itself, CD25 binds IL-2 only with low affinity. However, CD25 associates with CD122 (IL-2 receptor beta chain) and CD132 (common gamma chain) to form the high affinity IL-2 receptor. CD25 plays a role in lymphocyte differentiation and activation/proliferation.

The OX39 clone has been shown to deplete CD25 cells in vivo.

Applications Reported: This OX39 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This OX39 antibody has been tested by flow cytometric analysis of rat splenocytes. This can be used at less than or equal to 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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.

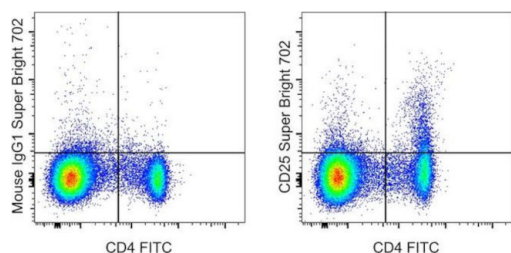
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

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 CD25 Monoclonal Antibody (OX39), Super Bright™ 702, eBioscience™



CD25 Antibody (67-0390-80) in Flow

Staining of rat splenocytes with CD4 Monoclonal Antibody, FITC (Product # 11-0040-82) and 0.5 μ g of Mouse IgG1 kappa Isotype Control, Super Bright 702 (Product # 67-4714-82) (left) or 0.5 μ g of CD25 Monoclonal Antibody, Super Bright 702 (right). Total viable cells were used for analysis.

2 References

Flow Cytometry (2)

Molecular biology reports

miR-126 ameliorates multiple organ dysfunction in septic rats by regulating the differentiation of Th17/Treg.

"Published figure using CD25 monoclonal antibody (Product # 67-0390-82) in Flow Cytometry"

Authors: Zou Q,Liu C,Hu N,Wang W,Wang H

Year
2022

Iranian journal of basic medical sciences

Orthodontic treatment induces Th17/Treg cells to regulate tooth movement in rats with periodontitis.

"Published figure using CD25 monoclonal antibody (Product # 67-0390-82) in Flow Cytometry"

Authors: Ge N,Peng J,Yu L,Huang S,Xu L,Su Y,Chen L

Year
2020

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