

CD25 Monoclonal Antibody (OX39), Super Bright™ 436, 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™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	OX39
Conjugate	Super Bright™ 436
Excitation/Emission Max	413/431 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_2762732

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 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 may be used at less than or equal to 0.25 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.

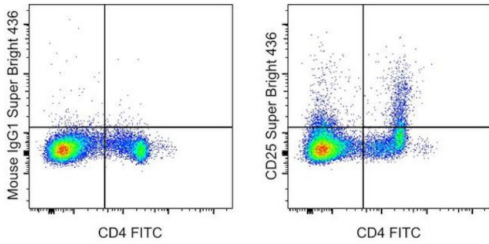
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

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.

Excitation: 405 nm; Emission: 436 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™ 436, eBioscience™



CD25 Antibody (62-0390-80) in Flow

Wistar rat splenocytes were stained with CD4 Monoclonal Antibody, FITC (Product # 11-0040-82) and 0.125 µg of Mouse IgG1 kappa Isotype Control, Super Bright 436 (Product # 62-4714-82) (left) or 0.125 µg of CD25 Monoclonal Antibody, Super Bright 436 (right). Total viable cells were used for analysis, as determined by 7-AAD (Product # 00-6993-50).

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 # 62-0390-82) 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 # 62-0390-82) in Flow Cytometry"

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

Year
2020

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