

CD45 Monoclonal Antibody (OX1), 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	OX1
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_2784805

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	1.0 µg/test	2 Publications

Product Specific Information

Description: This OX1 monoclonal antibody recognizes a non-polymorphic determinant of rat CD45, which is also known as the leukocyte common antigen. CD45 is expressed on all hematopoietic cells except erythrocytes and platelets. This type I transmembrane protein tyrosine phosphatase exists as a variety of different isoforms due to alternative splicing.

Applications Reported: This OX1 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This OX1 antibody has been tested by flow cytometric analysis of rat splenocytes. This may be used at less than or equal to 1.0 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.

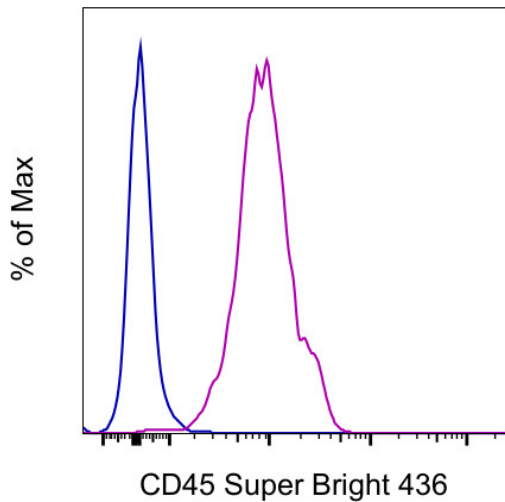
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

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 CD45 Monoclonal Antibody (OX1), Super Bright™ 436, eBioscience™



CD45 Antibody (62-0461-80) in Flow

Rat splenocytes were stained with 1.0 µg of Mouse IgG1 kappa Isotype Control, Super Bright 436 (Product # 62-4714-82) (blue histogram) or 1.0 µg of CD45 Monoclonal Antibody, Super Bright 436 (purple histogram). Cells in the lymphocyte gate were used for analysis.

3 References

Immunocytochemistry (1)

Frontiers in physiology

A Novel Fibroblast Reporter Cell Line for *in vitro* Studies of Pulmonary Fibrosis.

"Published figure using CD45 monoclonal antibody (Product # 62-0461-82) in Immunocytochemistry"

Authors: Nemeth J,Schundner A,Quast K,Winkelmann VE,Frick M

Year
2020

Flow Cytometry (2)

Journal of neuroinflammation

Sustained peripheral immune hyper-reactivity (SPIHR): an enduring biomarker of altered inflammatory responses in adult rats after perinatal brain injury.

"Published figure using CD45 monoclonal antibody (Product # 62-0461-82) in Flow Cytometry"

Authors: Kitase Y,Chin EM,Ramachandra S,Burkhardt C,Madurai NK,Lenz C,Hoon AH,Robinson S,Jantzie LL

Year
2021

Scientific reports

Bifidobacteria shape host neural circuits during postnatal development by promoting synapse formation and microglial function.

"Published figure using CD45 monoclonal antibody (Product # 62-0461-82) in Flow Cytometry"

Authors: Luck B,Engevik MA,Ganesh BP,Lackey EP,Lin T,Balderas M,Major A,Runge J,Luna RA,Sillitoe RV,Versalovic J

Year
2020

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