

CD45 Monoclonal Antibody (30-F11), Super Bright™ 645, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Super Bright™ 645, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	30-F11
Conjugate	Super Bright™ 645
Excitation/Emission Max	414/645 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_2662420

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	13 Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	3 Publications
Immunocytochemistry (ICC/IF)	-	4 Publications
Flow Cytometry (Flow)	0.5 µg/test	92 Publications

Product Specific Information

Description: The 30-F11 monoclonal antibody reacts with all isoforms of mouse CD45, also known as Leukocyte Common Antigen (LCA). CD45 is expressed by all hematopoietic cells excluding mature erythrocytes and platelets. The cytoplasmic portion of CD45 has tyrosine phosphatase enzymatic activity and plays an important role in activation of lymphocytes.

Applications Reported: This 30-F11 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 30-F11 antibody has been tested by flow cytometric analysis of mouse bone marrow cells. This can be used at less than or equal to 0.5 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 645 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 645 nm. We recommend using a 660/20 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.

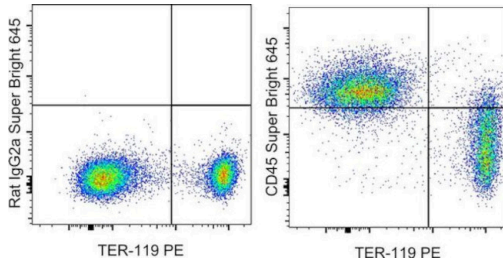
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 μ L of cell sample + 100 μ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 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: 645 nm; Laser: Violet Laser

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

Product Images For CD45 Monoclonal Antibody (30-F11), Super Bright™ 645, eBioscience™



CD45 Antibody (64-0451-82) in Flow

Staining of C57Bl/6 bone marrow cells with Anti-Mouse TER-119 PE (Product # 12-5921-82) and 0.25 μ g of Rat IgG2a K Isotype Control Super Bright 645 (Product # 64-4321-82) (left) or 0.25 μ g of Anti-Mouse CD45 Super Bright 645. Total viable cells were used for analysis.

[View more figures on thermofisher.com](https://www.thermofisher.com)

Flow Cytometry (92)

Cell & bioscience

Phosphatase SHP1 impedes mesenchymal stromal cell immunosuppressive capacity modulated by JAK1/STAT3 and P38 signals.

"Published figure using CD45 monoclonal antibody (Product # 64-0451-82) in Flow Cytometry"

Authors: Jiang M, Ye J, Wang X, Li N, Wang Y, Shi Y

Year
2022

JCI insight

Intranasal delivery of a small-molecule ErbB inhibitor promotes recovery from acute and late-stage CNS inflammation.

"Published figure using CD45 monoclonal antibody (Product # 64-0451-82) in Flow Cytometry"

Authors: Linnerbauer M, Löslein L, Vandrey O, Tsaktanis T, Beer A, Naumann UJ, Panier F, Beyer T, Nirschl L, Kuramatsu JB, Winkler J, Quintana FJ, Rothhammer V

Year
2022

[View more Flow references on thermofisher.com](#)

Immunocytochemistry (4)

International journal of molecular sciences

Trappc9 Deficiency Impairs the Plasticity of Stem Cells.

"Published figure using CD45 monoclonal antibody (Product # 64-0451-82) in Immunocytochemistry"

Authors: Usman M, Li Y, Ke Y, Chhetri G, Islam MA, Wang Z, Li X

Year
2022

Journal of bone and mineral research : the official journal of the American Society for Bone and Mineral Research

Intercellular Interactions of an Adipogenic CXCL12-Expressing Stromal Cell Subset in Murine Bone Marrow.

"Published figure using CD45 monoclonal antibody (Product # 64-0451-82) in Immunocytochemistry"

Authors: Matsushita Y, Chu AKY, Ono W, Welch JD, Ono N

Year
2021

[View more ICC/IF references on thermofisher.com](#)

More applications with references on thermofisher.com

IHC (7)

IHC (F) (3)

IHC (PFA) (1)

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