

# CD45 Monoclonal Antibody (30-F11), Super Bright™ 780, eBioscience™

<b>Product Details</b>		
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™ 780, eBioscience™	
Class	Monoclonal	
Туре	Antibody	
Clone	30-F11	
Conjugate	Super Bright <sup>™</sup> 780	
Excitation/Emission Max	413/780 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_2734988	

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	-	16 Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	3 Publications
Immunocytochemistry (ICC/IF)	-	5 Publications
Flow Cytometry (Flow)	0.5 µg/test	112 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 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Super Bright 780 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 780 nm. We recommend using a 780/60 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.

In some experiments, we have observed that compensation values for Super Bright 780-conjugated antibodies are higher in the violet 450/50 channel when using UltraComp eBeads microspheres (Product # 01-2222-42) as compared to single-color stained cells. In such circumstances, we would recommend setting compensation with cells. We have also observed this in some experiments using AbC Total Antibody Compensation beads (Product # A10497).

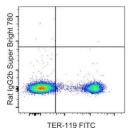
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

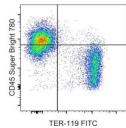
Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) ( $100 \,\mu\text{L}$  of cell sample +  $100 \,\mu\text{L}$  of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 405 nm; Emission: 780 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™ 780, eBioscience™





#### CD45 Antibody (78-0451-82) in Flow

BALB/c mouse bone marrow cells were stained with TER-119 Monoclonal Antibody, FITC (Product # 11-5921-82) and 0.25 µg of Rat IgG2b kappa Isotype Control, Super Bright 780 (Product # 78-4031-82) (left) or 0.25 µg of CD45 Monoclonal Antibody, Super Bright 780 (right). Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.cn

#### **□ 138 References**

## Western Blot (1)

**Biomedicines** 

Early Adolescence Prefrontal Cortex Alterations in Female Rats Lacking **Dopamine Transporter.** 

Year 2021

"Published figure using CD45 monoclonal antibody (Product # 78-0451-82) in Western Blot" Authors: Illiano P, Leo D, Gainetdinov RR, Pardo M

## Immunohistochemistry (16)

Cancer research communications

Toll-like Receptor Signaling-deficient Cells Enhance Antitumor Activity of Cell-based Immunotherapy by Increasing Tumor Homing.

"Published figure using CD45 monoclonal antibody (Product # 78-0451-82) in Immunohistochemistry" Authors: Morales-Molina A,Rodriguez-Milla MÁ,Gambera S,Cejalvo T,de Andrés B,Gaspar ML,García-Castro J Year 2023

Cellular and molecular gastroenterology and hepatology

A Point Mutation R122C in RUNX3 Promotes the Expansion of Isthmus Stem Cells and Inhibits Their Differentiation in the Stomach.

"Published figure using CD45 monoclonal antibody (Product # 78-0451-82) in Immunohistochemistry"

Authors: Douchi D, Yamamura A, Matsuo J, Lee JW, Nuttonmanit N, Melissa Lim YH, Suda K, Shimura M, Chen S, Pang S, Kohu K,Kaneko M,Kiyonari H,Kaneda A,Yoshida H,Taniuchi I,Osato M,Yang H,Unno M,Bok-Yan So J,Yeoh KG, Chuang LSH, Bae SC, Ito Y

Year 2022

> Year 2021

View more IHC references on thermofisher.cn

# Immunohistochemistry (PFA fixed) (1)

Nature communications

Genetic fate-mapping reveals surface accumulation but not deep organ invasion of pleural and peritoneal cavity macrophages following injury.

"Published figure using CD45 monoclonal antibody (Product # 78-0451-82) in Immunohistochemistry (PFA fixed)"

Authors: Jin H,Liu K,Tang J,Huang X,Wang H,Zhang Q,Zhu H,Li Y,Pu W,Zhao H,He L,Li Y,Zhang S,Zhang Z,Zhao Y, Qin Y,Pflanz S,Kasmi KEI,Zhang W,Liu Z,Ginhoux F,Ji Y,He B,Wang L,Zhou B

## More applications with references on thermofisher.cn

IHC (F) (3) ICC/IF (5) Flow (112)

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