

CD45 Monoclonal Antibody (30-F11), Super Bright™ 600, eBioscience™

| Product Details | |
|-----------------------------|---|
| Size | 25 µg |
| Species Reactivity | Mouse |
| Published Species | Mouse, Human |
| Host/Isotype | Rat / IgG2b, kappa |
| Recommended Isotype Control | Rat IgG2b kappa Isotype Control (eB149/10H5), Super Bright™ 600, eBioscience™ |
| Class | Monoclonal |
| Type | Antibody |
| Clone | 30-F11 |
| Conjugate | Super Bright™ 600 |
| 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_2637148 |

| Applications | Tested Dilution | Publications |
|--|-----------------|------------------|
| Immunohistochemistry (IHC) | - | 35 Publications |
| Immunohistochemistry (PFA fixed) (IHC (PFA)) | - | 1 Publication |
| Immunohistochemistry (Frozen) (IHC (F)) | - | 3 Publications |
| Immunocytochemistry (ICC/IF) | - | 8 Publications |
| Flow Cytometry (Flow) | 0.25 µg/test | 170 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 0.25 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 10⁴ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Super Bright 600 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 600 nm. We recommend using a 610/20 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.

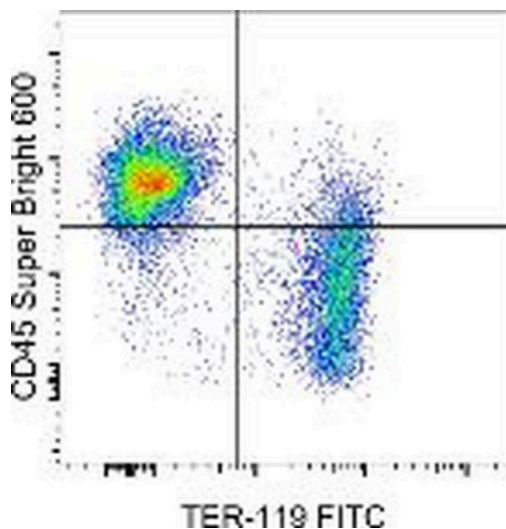
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Protect this vial and stained samples from light.

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 2-8°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorochrome performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 405 nm; Emission: 600 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™ 600, eBioscience™



CD45 Antibody (63-0451-80) in Flow

Staining of BALB/c bone marrow cells with Anti-Mouse TER-119 FITC (Product # 11-5921-82) and 0.125 μ g of Anti-Mouse CD45 Super Bright 600. Total viable cells were used for analysis.

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

Immunohistochemistry (35)

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 # 63-0451-82) 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, Huey Chuang LS, Bae SC, Ito Y

Year
2022

Journal of ophthalmology

Reduced Expression of VAMP8 in Lacrimal Gland Affected by Chronic Graft-versus-Host Disease.

"Published figure using CD45 monoclonal antibody (Product # 63-0451-82) in Immunofluorescence"

Authors: Fukui M, Ogawa Y, Mukai S, Kamoi M, Asato T, Kawakami Y, Tsubota K

Year
2021

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

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 # 63-0451-82) 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

Year
2021

Immunohistochemistry (Frozen) (3)

Frontiers in molecular biosciences

Transcriptional Network Analysis Reveals the Role of miR-223-5p During Diabetic Corneal Epithelial Regeneration.

"Published figure using CD45 monoclonal antibody (Product # 63-0451-82) in Immunocytochemistry"

Authors: Zhang Y, Dou S, Qi X, Zhang Z, Qiao Y, Wang Y, Xie J, Jiang H, Zhang B, Zhou Q, Wang Q, Xie L

Year
2021

[View more IHC \(F\) references on thermofisher.com](#)

More applications with references on thermofisher.com

ICC/IF (8) Flow (170)

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