

# CD45 Monoclonal Antibody (30-F11), Super Bright™ 702, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Super Bright™ 702, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	30-F11
Conjugate	Super Bright™ 702
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_2662424

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	10 Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	5 Publications
Flow Cytometry (Flow)	0.5 µg/test	27 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.

This monoclonal antibody has been reported to have several functional activities, including inhibition of cytotoxic ability, activation of cell signaling, and NK cell depletion in vivo. Moreover, the 3G8 antibody clone has been demonstrated to work on capuchin monkey, chimpanzee, common marmoset, cynomolgous monkey, hamadryas baboon, olive baboon, pigtailed macaque, rhesus, and squirrel monkey.

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  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Super Bright 702 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 702 nm. We recommend using a 710/50 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.

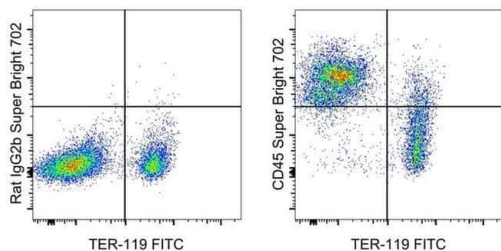
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100  $\mu$ L of cell sample + 100  $\mu$ 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: 702 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™ 702, eBioscience™



### CD45 Antibody (67-0451-82) in Flow

Staining of C57BL/6 bone marrow cells with Anti-Mouse TER-119 FITC (Product # 11-5921-82) and 0.25  $\mu$ g of Rat IgG2b kappa Isotype Control Super Bright 702 (Product # 67-4031-82) (left) or 0.25  $\mu$ g of Anti-Mouse CD45 Super Bright 702 (right). Total viable cells were used for analysis.

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

## 44 References

### Immunohistochemistry (10)

NPJ Regenerative medicine

#### Differential activation of Ca<sup>2+</sup> influx channels modulate stem cell potency, their proliferation/viability and tissue regeneration.

"Published figure using CD45 monoclonal antibody (Product # 67-0451-82) in Immunohistochemistry"

Authors: Ahamad N,Sun Y,Nascimento Da Conceicao V,Xavier Paul Ezhilan CRD,Natarajan M,Singh BB

Year  
2021

International journal of molecular sciences

#### C3 Deficiency Leads to Increased Angiogenesis and Elevated Pro-Angiogenic Leukocyte Recruitment in Ischemic Muscle Tissue.

"Published figure using CD45 monoclonal antibody (Product # 67-0451-82) in Immunohistochemistry"

Authors: Götz P,Braumandl A,Kübler M,Kumaraswami K,Ishikawa-Ankerhold H,Lasch M,Deindl E

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 # 67-0451-82) 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) (1)

Biology

#### Increased Levels of IL-16 in the Central Nervous System during Neuroinflammation Are Associated with Infiltrating Immune Cells and Resident Glial Cells.

"Published figure using CD45 monoclonal antibody (Product # 67-0451-82) in Immunohistochemistry (Frozen)"

Authors: Hridi SU,Barbour M,Wilson C,Franssen AJ,Harte T,Bushell TJ,Jiang HR

Year  
2021

### More applications with references on thermofisher.com

ICC/IF (5)

Flow (27)

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