

CD45 Monoclonal Antibody (30-F11), PE-Cyanine7, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Fish, Mouse, Human
Host/Isotope	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	30-F11
Conjugate	PE-Cyanine7
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2734986

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	138 Publications
Immunofluorescence (IF)	-	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

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 splenocytes. This can be used at less than or equal to 0.125 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.

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

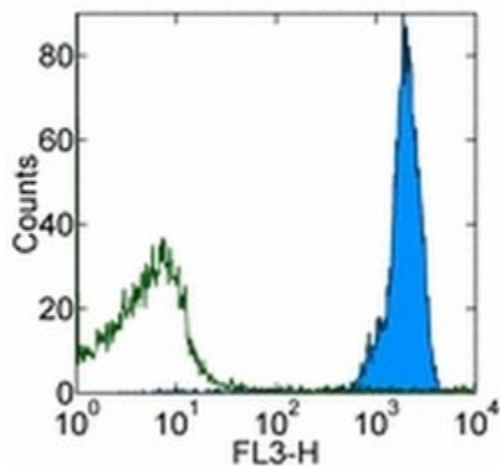
Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix

/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: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD45 Monoclonal Antibody (30-F11), PE-Cyanine7, eBioscience™



CD45 Antibody (25-0451-82) in Flow

Staining of BALB/c splenocytes with 0.06 µg of Rat IgG2b K Isotype Control PE-Cyanine7 (Product # 25-4031-82) (open histogram) or 0.06 µg of Anti-Mouse CD45 PE-Cyanine7 (filled histogram). Total splenocytes were used for analysis.

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

Flow Cytometry (138)

Oncoimmunology

The Interleukin (IL)-1R1 pathway is a critical negative regulator of PyMT-mediated mammary tumorigenesis and pulmonary metastasis.

"25-0451 was used in Flow cytometry/Cell sorting to genetically investigate the role of the interleukin-1 receptor 1 pathway in breast cancer tumorigenesis and metastasis using a mouse model."

Authors: Dagenais M, Dupaul-Chicoine J, Douglas T, Champagne C, Morizot A, Saleh M

Species
Mouse

Dilution
Not Cited

Year
2019

Oncoimmunology

Interleukin-21 combined with PD-1 or CTLA-4 blockade enhances antitumor immunity in mouse tumor models.

"25-0451 was used in Flow cytometry/Cell sorting to investigate the efficacy of immune-modulatory interleukin-21 combined with checkpoint blockade in several syngeneic mouse tumor models."

Authors: Lewis KE, Selby MJ, Masters G, Valle J, Dito G, Curtis WR, Garcia R, Mink KA, Waggle KS, Holdren MS, Grosso JF, Korman AJ, Jure-Kunkel M, Dillon SR

Species
Mouse

Dilution
Not Cited

Year
2019

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

Immunofluorescence (2)

Nature communications

Fibrocyte-like cells mediate acquired resistance to anti-angiogenic therapy with bevacizumab.

"25-0451 was used in Flow cytometry/Cell sorting to show that bone marrow-derived fibrocyte-like cells contribute to the acquired resistance to anti-angiogenic therapy with bevacizumab."

Authors: Mitsuhashi A, Goto H, Saijo A, Trung VT, Aono Y, Ogino H, Kuramoto T, Tabata S, Uehara H, Izumi K, Yoshida M, Kobayashi H, Takahashi H, Gotoh M, Kakiuchi S, Hanibuchi M, Yano S, Yokomise H, Sakiyama S, Nishioka Y

Species
Mouse

Dilution
Not Cited

Year
2015

PLoS one

Delta-like ligand (DLL)1 expression in early mouse decidua and its localization to uterine natural killer cells.

"25-0451 was used in Immunohistochemistry to suggest that uNK cells may induce endothelial tip cell differentiation and promote non-planar vascular growth within early decidua basalis."

Authors: Degaki KY, Chen Z, Yamada AT, Croy BA

Species
Mouse

Dilution
Not Cited

Year
2013

More applications with references on thermofisher.com

[IHC \(F\) \(1\)](#)

[Misc \(1\)](#)

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