

CD45 Monoclonal Antibody (30-F11), APC-eFluor 780, 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), APC-eFluor 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	30-F11
Conjugate	APC-eFluor® 780
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_1548781

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.125 µg/test	63 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 0.125 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.

APC-eFluor 780 emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

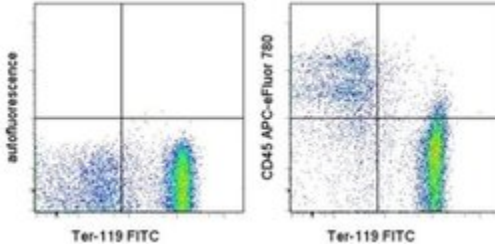
Light sensitivity: This tandem is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 μ L cell sample + 100 μ L 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: 633-647 nm; Emission: 780 nm; Laser: Red Laser.

Filtration: 0.2 μ m post-manufacturing filtered.

Product Images For CD45 Monoclonal Antibody (30-F11), APC-eFluor 780, eBioscience™



CD45 Antibody (47-0451-82) in Flow

Staining of C57BL/6 bone marrow cells with Anti-Mouse TER-119 FITC (Product # 11-5921-82) and 0.06 μ g of Rat IgG2b kappa Isotype Control APC-eFluor® 780 (Product # 47-4031-82) (left) or 0.06 μ g of Anti-Mouse CD45 APC-eFluor® 780 (right). Total viable cells were used for analysis.

Immunohistochemistry (1)

Cell research

Fibroblasts in an endocardial fibroelastosis disease model mainly originate from mesenchymal derivatives of epicardium.

"47-0451 was used in Immunohistochemistry to examine the origin of the excessive fibroblasts found within endocardial fibroelastosis-like tissues."

Authors: Zhang H,Huang X,Liu K,Tang J,He L,Pu W,Liu Q,Li Y,Tian X,Wang Y,Zhang L,Yu Y,Wang H,Hu R,Wang F, Chen T,Wang QD,Qiao Z,Zhang L,Lui KO,Zhou B

Species
Mouse

Dilution
Not Cited

Year
2017

Immunohistochemistry (Frozen) (1)

EBioMedicine

Batf3-dependent CD8⁺ Dendritic Cells Aggravates Atherosclerosis via Th1 Cell Induction and Enhanced CCL5 Expression in Plaque Macrophages.

"47-0451 was used in Immunofluorescence to show that Batf3^{-/-}Apoe^{-/-} mice, lacking CD8⁺ DCs, exhibited a significant reduction in atherogenesis and T help 1 (Th1) cells compared with Apoe^{-/-} controls."

Authors: Li Y,Liu X,Duan W,Tian H,Zhu G,He H,Yao S,Yi S,Song W,Tang H

Species
Mouse

Dilution
Not Cited

Year
2017

Immunocytochemistry (1)

Nature medicine

Chemotherapy-induced bone marrow nerve injury impairs hematopoietic regeneration.

"47-0451 was used in Flow cytometry/Cell sorting to demonstrate the potential benefit of adrenergic nerve protection for shielding hematopoietic niches from injury."

Authors: Lucas D,Scheiermann C,Chow A,Kunisaki Y,Bruns I,Barrick C,Tessarollo L,Frenette PS

Species
Mouse

Dilution
1:100

Year
2013

Flow Cytometry (63)

Basic research in cardiology

Ablation of lysozyme M-positive cells prevents aircraft noise-induced vascular damage without improving cerebral side effects.

"47-0451 was used in Flow cytometry/Cell sorting to determine the role of myeloid cells in the vascular vs. cerebral consequences of exposure to aircraft noise."

Authors: Frenis K,Helmstädter J,Ruan Y,Schramm E,Kalinovic S,Kröllner-Schön S,Bayo Jimenez MT,Hahad O,Oelze M, Jiang S,Wenzel P,Sommer CJ,Frauenknecht KBM,Waisman A,Gericke A,Daiber A,Münzel T,Steven S

Species
Mouse

Dilution
Not Cited

Year
2021

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More applications with references on thermofisher.com

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