

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

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	C. elegans, Mouse, Human
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
Excitation/Emission Max	756/785 nm
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)	-	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	0.125 µg/test	155 Publications
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 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 fluorochoime.

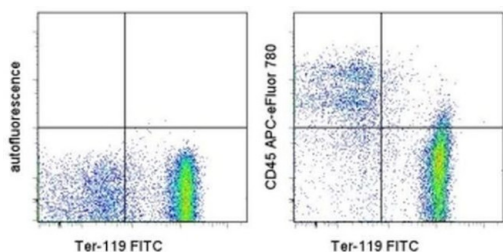
Light sensitivity: This tandem is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 μ L cell sample + 100 μ L 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: 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 (2)

Nature protocols

Generation of neighbor-labeling cells to study intercellular interactions in vivo.

"47-0451-82 was used in Immunohistochemistry to study cell-cell interactions in cancer and metastasis with Cherry-niche."

Authors: Ombrato L, Nolan E, Passaro D, Kurelac I, Bridgeman VL, Waclawiczek A, Duarte D, Lo Celso C, Bonnet D, Malanchi I

Year
2021

Species
Mouse

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

Year
2017

Species
Mouse

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

Year
2017

Species
Mouse

Immunocytochemistry (2)

STAR protocols

Protocols for isolation and characterization of mouse placental hemogenic endothelial cells.

"47-0451-82 was used in Immunocytochemistry to describe a protocol for isolation and characterization of the hemogenic endothelial (HE) cells from mouse placenta."

Authors: Liang G, Huang B, Wang F, Liu F

Year
2021

Species
Mouse

Dilution
1:100

More applications with references on thermofisher.cn

Flow (155)

Misc (1)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.