

CD45 Monoclonal Antibody (30-F11), eFluor 450, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), eFluor 450, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	30-F11
Conjugate	eFluor® 450
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_1518806

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	2 Publications
Flow Cytometry (Flow)	0.5 µg/test	94 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.

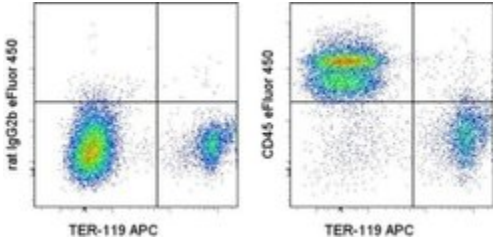
Applications Tested: This 30-F11 antibody has been tested by flow cytometric analysis of mouse bone marrow cells. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be 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.

eFluor® 450 is an alternative to Pacific Blue®. eFluor® 450 emits at 445 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochoime.

Excitation: 405 nm; **Emission:** 445 nm; **Laser:** Violet Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD45 Monoclonal Antibody (30-F11), eFluor 450, eBioscience™



CD45 Antibody (48-0451-82) in Flow

Staining of C57BL/6 bone marrow cells with Anti-Mouse TER-119 APC (Product # 17-5921-82) and 0.25 µg of Anti-Mouse CD45 eFluor® 450. Total viable cells were used for analysis.

Immunohistochemistry (2)

Biomaterials

Development of a near infrared protein nanoprobe targeting Thomsen-Friedenreich antigen for intraoperative detection of submillimeter nodules in an ovarian peritoneal carcinomatosis mouse model.

"48-0451 was used in Immunohistochemistry to develop a recombinant lectin as a nanoprobe for the microscopic detection of nodules in the peritoneal cavity of tumor-bearing mice."

Authors: Coustets M,Ladurantie C,Bellard E,Prat M,Rols MP,Ecochard V,Ferron G,Chabot S,Golzio M,Paquereau L

Species
Mouse

Dilution
Not Cited

Year
2020

The Journal of clinical investigation

Lymphatic vessels regulate immune microenvironments in human and murine melanoma.

"48-0451 was used in Immunohistochemistry to suggest that the establishment of tumour-associated inflammation and immunity critically depends on lymphatic vessel remodelling and drainage."

Authors: Lund AW,Wagner M,Fankhauser M,Steinskog ES,Broggi MA,Spranger S,Gajewski TF,Alitalo K,Eikesdal HP,Wiig H,Swartz MA

Species
Human
Mouse

Dilution
Not Cited
Not Cited

Year
2016

Flow Cytometry (94)

NPJ vaccines

Specific targeting of IL-1 activity to CD8⁺ T cells allows for safe use as a vaccine adjuvant.

"48-0451 was used in Flow cytometry/Cell sorting to demonstrate safe inclusion of IL-1 as an adjuvant in vaccination strategies, leading to full protection of mice against a high influenza virus challenge dose by raising potent T cell responses."

Authors: Van Den Eeckhout B, Van Hoecke L, Burg E, Van Lint S, Peelman F, Kley N, Uzé G, Saelens X, Tavernier J, Gerlo S

Species
Mouse

Dilution
1:500

Year
2021

Theranostics

Delayed microglial depletion after spinal cord injury reduces chronic inflammation and neurodegeneration in the brain and improves neurological recovery in male mice.

"48-0451 was used in Flow cytometry/Cell sorting to show deletion of microglia can improve recovery of cognition, depressive-like behavior, and motor function by reducing neuroinflammation in the injured spinal cord and brain."

Authors: Li Y, Ritzel RM, Khan N, Cao T, He J, Lei Z, Matyas JJ, Sabirzhanov B, Liu S, Li H, Stoica BA, Loane DJ, Faden AI, Wu J

Species
Mouse

Dilution
Not Cited

Year
2021

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

More applications with references on thermofisher.com

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