

CD45 Monoclonal Antibody (HI30), eFluor™ 506, eBioscience™

Product Details

Size	100 Tests
Species Reactivity	Human
Published Species	Mouse, Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), eFluor™ 506, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HI30
Conjugate	eFluor™ 506
Excitation/Emission Max	419/508 nm
Form	Liquid
Concentration	5 µL/Test
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_2637382

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	5 Publications
Immunocytochemistry (ICC/IF)	-	6 Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	42 Publications

Product Specific Information

Description: The HI30 monoclonal antibody reacts with all isoforms of human CD45, also known as Leukocyte Common Antigen (LCA). CD45 is expressed by all hematopoietic cells excluding circulating 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 HI30 antibody has been reported for use in flow cytometric analysis.

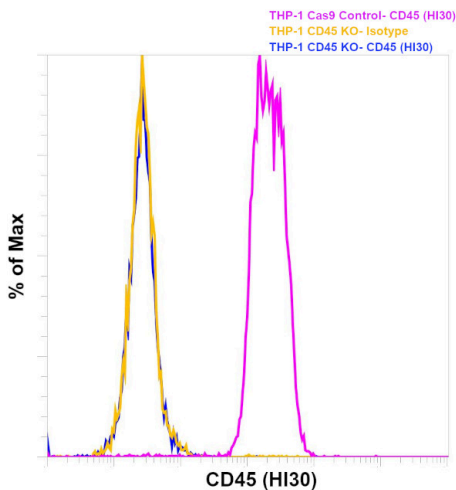
Applications Tested: This HI30 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.5 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells /test.

eFluor® 506 can be excited with the violet laser line (405 nm) and emits at 506 nm. We recommend using a 510/20 band pass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 405 nm; Emission: 506 nm; Laser: Violet Laser.

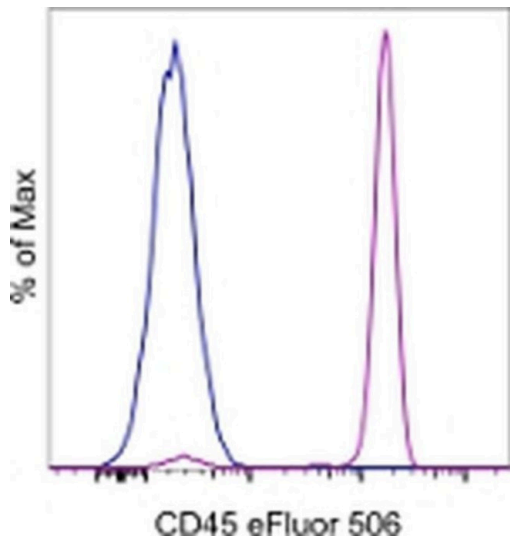
Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD45 Monoclonal Antibody (HI30), eFluor™ 506, eBioscience™



CD45 Antibody (69-0459-42)

Antibody clone (HI30) specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. Loss of signal was observed for target protein in HI30 KO cells (blue histogram) compared to the control Cas9 cells (pink histogram) using CD45 antibody (HI30). The Yellow histogram represents staining with the isotype control. {KO}



CD45 Antibody (69-0459-42) in Flow

Staining of normal human peripheral blood cells with Mouse IgG1 K Isotype Control eFluor® 506 (Product # 69-4714-82) (blue histogram) or Anti-Human CD45 eFluor® 506 (purple histogram). Cells in the lymphocyte gate were used for analysis.

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Immunohistochemistry (5)

iScience	Year 2024
Genomic analysis of human brain metastases treated with stereotactic radiosurgery reveals unique signature based on treatment failure.	
"Published figure using CD45 monoclonal antibody (Product # 69-0459-42) in Immunohistochemistry"	
Authors: Shireman JM,White Q,Ni Z,Mohanty C,Cai Y,Zhao L,Agrawal N,Gonugunta N,Wang X,Mccarthy L,Kasulabada V,Pattnaik A,Ahmed AU,Miller J,Kulwin C,Cohen-Gadol A,Payner T,Lin CT,Savage JJ,Lane B,Shiue K,Kamer A,Shah M,Iyer G,Watson G,Kendziorski C,Dey M	
Cell	Year 2022
Pan-cancer analyses reveal cancer-type-specific fungal ecologies and bacteriome interactions.	
"Published figure using CD45 monoclonal antibody (Product # 69-0459-42) in Immunohistochemistry"	
Authors: Narunsky-Haziza L,Sepich-Poore GD,Livvyatan I,Asraf O,Martino C,Nejman D,Gavert N,Stajich JE,Amit G,González A,Wandro S,Perry G,Ariel R,Meltser A,Shaffer JP,Zhu Q,Balint-Lahat N,Barshack I,Dadiani M,Gal-Yam EN,Patel SP,Bashan A,Swafford AD,Pilpel Y,Knight R,Straussman R	

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Immunocytochemistry (6)

Cancers	Year 2021
Clinical Significance of Circulating Tumor Cell Induced Epithelial-Mesenchymal Transition in Patients with Metastatic Colorectal Cancer by Single-Cell RNA-Sequencing.	
"Published figure using CD45 monoclonal antibody (Product # 69-0459-42) in Immunocytochemistry"	
Authors: Kozuka M,Battaglin F,Jayachandran P,Wang J,Arai H,Soni S,Zhang W,Hirai M,Matsusaka S,Lenz HJ	
Translational lung cancer research	Year 2020
Microsieves for the detection of circulating tumor cells in leukapheresis product in non-small cell lung cancer patients.	
"Published figure using CD45 monoclonal antibody (Product # 69-0459-42) in Immunocytochemistry"	
Authors: Tamminga M,Oomens L,Hiltermann TJN,Andree KC,Tibbe A,Broekmaat J,Schuuring E,Terstappen LWMM,Groen HJM	

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Flow (42)

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