

CD45 Monoclonal Antibody (HI30), FITC, 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), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HI30
Conjugate	FITC
Excitation/Emission Max	498/517 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_10852703

Applications	Tested Dilution	Publications
Western Blot (WB)	-	2 Publications
Immunohistochemistry (IHC)	-	5 Publications
Immunocytochemistry (ICC/IF)	-	6 Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	58 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.

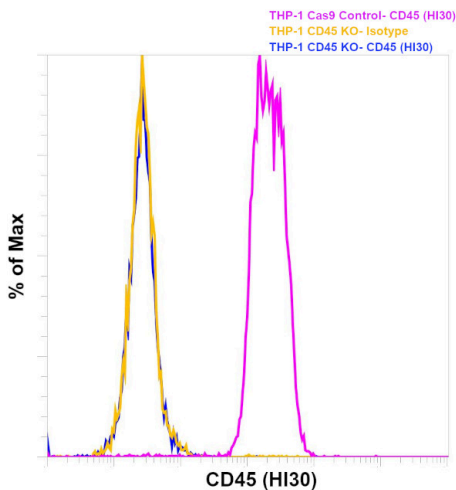
Applications Reported: The HI30 antibody has been reported for use in flow cytometric analysis.

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 (0.25 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.

Excitation: 488 nm; **Emission:** 520 nm; **Laser:** Blue Laser.

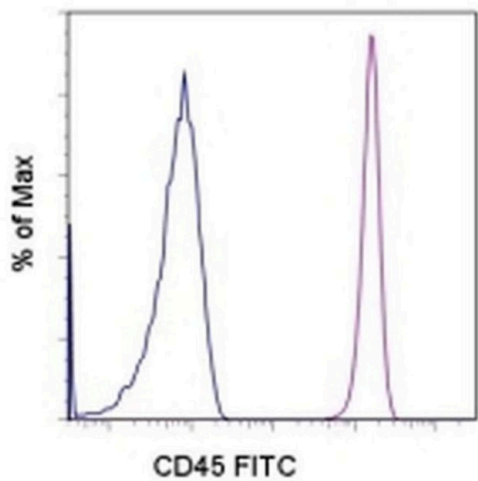
Filtration: 0.2 µm post-manufacturing filtered.

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



CD45 Antibody (11-0459-42)

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 (11-0459-42) in Flow

Staining of normal human peripheral blood cells with Mouse IgG1 K Isotype Control FITC (Product # 11-4714-42) (blue histogram) or Anti-Human CD45 FITC (purple histogram). Cells in the lymphocyte gate were used for analysis.

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

71 References

Western Blot (2)

<p>Nature communications</p> <p>Inactivation of nuclear GSK3 by Ser(389) phosphorylation promotes lymphocyte fitness during DNA double-strand break response.</p> <p>"Published figure using CD45 monoclonal antibody (Product # 11-0459-42) in Western Blot"</p> <p>Authors: Thornton TM, Delgado P, Chen L, Salas B, Kremontsov D, Fernandez M, Vernia S, Davis RJ, Heimann R, Teuscher C, Krangel MS, Ramiro AR, Rincón M</p>	<p>Year</p> <p>2016</p>
<p>Frontiers in cell and developmental biology</p> <p>A novel function of RIP1 in postnatal development and immune homeostasis by protecting against RIP3-dependent necroptosis and FADD-mediated apoptosis.</p> <p>"Published figure using CD45 monoclonal antibody (Product # 11-0459-42) in Western Blot"</p> <p>Authors: Dowling JP, Nair A, Zhang J</p>	<p>Year</p> <p>2015</p>

iScience

Genomic analysis of human brain metastases treated with stereotactic radiosurgery reveals unique signature based on treatment failure.

"Published figure using CD45 monoclonal antibody (Product # 11-0459-42) 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,Kendzierski C,Dey M

Year

2024

Cell

Pan-cancer analyses reveal cancer-type-specific fungal ecologies and bacteriome interactions.

"Published figure using CD45 monoclonal antibody (Product # 11-0459-42) in Immunohistochemistry"

Authors: Narunsky-Haziza L,Sepich-Poore GD,Livyatan 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

Year

2022

[View more IHC references on thermofisher.cn](#)

More applications with references on thermofisher.cn

- ICC/IF (6)
- Flow (58)

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