

# CD4 Monoclonal Antibody (S3.5), PE

## Product Details

Size	500 µL
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG2a
Class	Monoclonal
Type	Antibody
Clone	S3.5
Conjugate	PE
Excitation/Emission Max	565/576 nm
Immunogen	Human CD4
Form	Liquid
Purification	purified
Storage buffer	PBS with BSA, sucrose
Contains	0.1% sodium azide
Storage conditions	4° C, store in dark
RRID	AB_10376142

## Applications

## Tested Dilution

## Publications

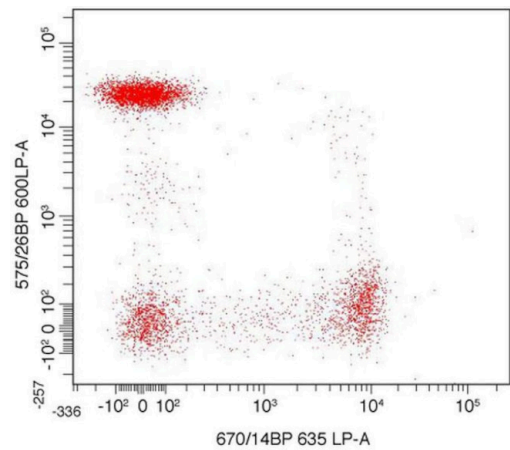
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	Assay-Dependent	12 Publications
Miscellaneous PubMed (Misc)	-	3 Publications

## Product Specific Information

R-phycoerythrin (PE) is a stable and highly soluble phycobiliprotein which provides maximal absorbance and fluorescence without susceptibility to internal or external fluorescence quenching, thus providing an exceptional quantum yields and molar extinction coefficients.

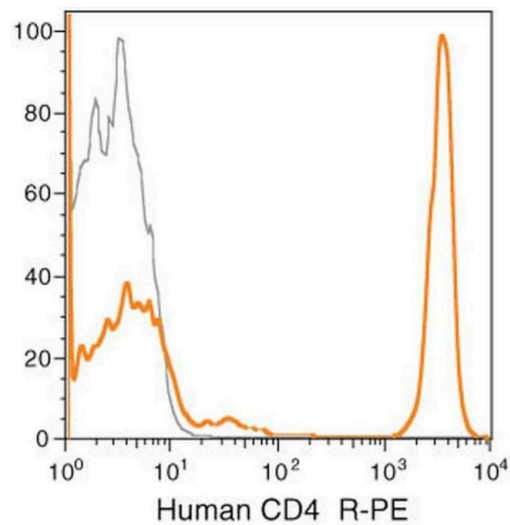
This antibody may be used, in combination with other indicators, for the diagnosis or prognosis of immunodeficiency diseases, including hypogammaglobulinemia, severe combined immunodeficiency (SCID), and the acquired immunodeficiency disease (AIDS).

Product Images For CD4 Monoclonal Antibody (S3.5), PE



**CD4 Antibody (MHCD0404) in Flow**

Flow cytometry histogram showing human mononuclear cells stained with anti-CD4 complexed with Alexa Fluor® 700 Zenon® labeling reagent. An antibody complex was made by using the Zenon® Alexa Fluor® 700 Mouse IgG1 Labeling Kit (Product # Z-25011) and mouse anti human CD4. Human mononuclear cells were stained with the antibody complex and analyzed by flow cytometry using a 633 nm laser.



**CD4 Antibody (MHCD0404) in Flow**

Human peripheral blood lymphocytes were stained using R-PE of anti-human CD4 monoclonal antibody (clone S3.5). The negative control profiles represent unstained cells.

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Immunocytochemistry (1)

<p>PloS one</p> <p><b>Nef neutralizes the ability of exosomes from CD4+ T cells to act as decoys during HIV-1 infection.</b></p> <p>"MHCD0404 was used in flow cytometry and immunocytochemistry to test if Nef modifies the composition of exosomes released by T lymphocytes"</p> <p>Authors: de Carvalho JV,de Castro RO,da Silva EZ,Silveira PP,da Silva-Januário ME,Arruda E,Jamur MC,Oliver C, Aguiar RS,daSilva LL</p>	<p>Year 2015</p> <p>Species Human</p>
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Flow Cytometry (12)

<p>Journal of oncology</p> <p><b>Secretory High-Mobility Group Box 1 Protein Affects Regulatory T Cell Differentiation in Neuroblastoma Microenvironment <i>In Vitro</i>.</b></p> <p>"MHCD0404 was used in Flow cytometry/Cell sorting to elucidate the role of the neuroblastoma microenvironment in promoting regulatory T cell phenotype."</p> <p>Authors: Vanichapol T,Chiangjong W,Panachan J,Anurathapan U,Chutipongtanate S,Hongeng S</p>	<p>Year 2023</p> <p>Species Human</p>
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<p>Nature communications</p> <p><b>Single-cell RNA sequencing reveals ex vivo signatures of SARS-CoV-2-reactive T cells through 'reverse phenotyping'.</b></p> <p>"Published figure using CD4 monoclonal antibody (Product # MHCD0404) in Flow Cytometry"</p> <p>Authors: Fischer DS,Ansari M,Wagner KI,Jarosch S,Huang Y,Mayr CH,Strunz M,Lang NJ,D'Ippolito E,Hammel M, Mateyka L,Weber S,Wolff LS,Witter K,Fernandez IE,Leuschner G,Milger K,Frankenberger M,Nowak L,Heinig-Menhard K,Koch I,Stoleriu MG,Hilgendorff A,Behr J,Pichlmair A,Schubert B,Theis FJ,Busch DH,Schiller HB,Schober K</p>	<p>Year 2021</p> <p>Species Human</p> <p>Dilution 1:100</p>
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[View more Flow references on thermofisher.cn](#)

Miscellaneous PubMed (3)

<p>Cell</p> <p><b>Heme-mediated SPI-C induction promotes monocyte differentiation into iron-recycling macrophages.</b></p> <p>"MHCD0404 was used in flow cytometry to investigate how heme regulates Spic in macrophages."</p> <p>Authors: Haldar M,Kohyama M,So AY,Kc W,Wu X,Briseño CG,Satpathy AT,Kretzer NM,Arase H,Rajasekaran NS, Wang L,Egawa T,Igarashi K,Baltimore D,Murphy TL,Murphy KM</p>	<p>Year 2014</p> <p>Species Human</p>
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