

# CD3 Monoclonal Antibody (SK7), APC, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Chimpanzee, Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	SK7
Conjugate	APC
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10596664

Applications	Tested Dilution	Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	14 Publications

## Product Specific Information

**Description:** The SK7 monoclonal antibody reacts with human and chimpanzee CD3e, a 20 kDa subunit of the TCR complex. Along with the other CD3 subunits gamma and delta, the epsilon chain is required for proper assembly, trafficking and surface expression of the TCR complex. CD3 is expressed by thymocytes in a developmentally regulated manner and by all mature T cells. The SK7 and UCHT1 monoclonal antibodies cross-block binding, suggesting recognition of overlapping epitope. In contrast, clones OKT3 and SK7 see different epitopes.

The antibody SK7 recognizes chimpanzee CD3.

**Applications Reported:** This SK7 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This SK7 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.125 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 10<sup>5</sup> to 10<sup>8</sup> cells/test.

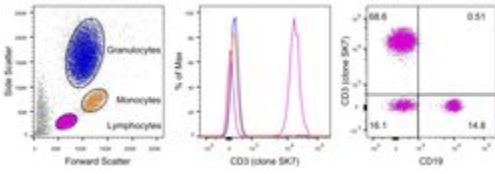
**Excitation:** 633-647 nm; **Emission:** 660 nm; **Laser:** Red Laser.

**Filtration:** 0.2 µm post-manufacturing filtered.

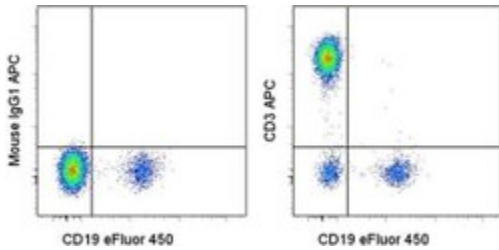
## Advanced Verification Data

### CD3 Antibody (17-0036-42)

Staining of human peripheral blood cells. As expected based on known relative expression patterns, CD3 clone SK7 stains a subset of lymphocytes (T cells) and does not stain monocytes and granulocytes (middle plot). Additional analysis of lymphocytes shows that CD3 clone SK7 does not stain any CD19+ B cells (right plot). Details: Normal human whole blood was surface stained with CD3 (clone SK7) and CD19 (clone HIB19). After staining, red blood cells were lysed using 1-step Fix /Lyse Buffer. Cells in the lymphocyte (purple histogram), monocyte (orange histogram), or granulocyte (blue histogram) gates were used to compare CD3 staining (middle plot). Cells in the lymphocyte gate were used to compare CD3 and CD19 staining (right plot). Relative expression validation info.



## Product Images For CD3 Monoclonal Antibody (SK7), APC, eBioscience™



### CD3 Antibody (17-0036-42) in Flow

Staining of normal human peripheral blood cells with Anti-Human CD19 eFluor® 450 (Product # 48-0199-42) and Mouse IgG1 K Isotype Control APC (Product # 17-4714-81) (left) or Anti-Human CD3 APC (right). Cells in the lymphocyte gate were used for analysis.

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

## 15 References

### Immunohistochemistry (Frozen) (1)

The journal of histochemistry and cytochemistry : official journal of the Histochemistry Society

#### A monoclonal antibody selection for immunohistochemical examination of lymphoid tissues from non-human primates.

Authors: Kap YS,van Meurs M,van Driel N,Koopman G,Melief MJ,Brok HP,Laman JD,'t Hart BA

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2009

### Flow Cytometry (14)

Journal for immunotherapy of cancer

#### Direct and indirect immune effects of CMP-001, a virus-like particle containing a TLR9 agonist.

"17-0036-42 was used in Flow Cytometry to explore mechanisms by which the initial effects of CMP-001 on pDCs activate other cells that can contribute to development of an antitumor T-cell response."

Authors: Sabree SA,Voigt AP,Blackwell SE,Vishwakarma A,Chimentti MS,Salem AK,Weiner GJ

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2021

Frontiers in immunology

#### Synthetic Abortive HIV-1 RNAs Induce Potent Antiviral Immunity.

"Published figure using CD3 monoclonal antibody (Product # 17-0036-42) in Flow Cytometry"

Authors: Stunnenberg M,Sprockholt JK,van Hamme JL,Kaptein TM,Zijlstra-Willems EM,Gringhuis SI,Geijtenbeek TBH

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2021

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

### More applications with references on thermofisher.com

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