

Monoclonal Anti-Human CD3 Antibody

Mouse IgG2a (HPLC verified)

- Ultra-low endotoxin
- Ultra-high purity
- Ultra-high bioactivity

Catalog# / Size	AC67564/500ug
Clone	OKT3
Isotype	Mouse IgG2a, κ
Endotoxin	Less than 0.001 EU per μ g determined by LAL gel clotting assay.
Purity	>99% as determined by SDS-PAGE >99% as determined by SEC-HPLC
Antibody Type	Monoclonal
Expressed Host	Stable CHO cell line
Application	T-cell activation

Product Details

Reactivity	Human
Concentration	1.0 mg/mL
Form	Liquid
Antibody Type	Monoclonal
Formulation	Supplied as 0.2 μ m filtered solution in PBS, pH7.4.
Storage instructions	Shipped at 4°C. Stored at 4°C for 12 months.
Other Names	T3,CD3 ϵ

Description

CD3 ϵ is a 20 kD chain of the CD3/T cell receptor (TCR) complex, which is composed of two CD3 ϵ , one CD3 γ , one CD3 δ , one CD3 ζ (CD247), and a T cell receptor (α/β or γ/δ) heterodimer.

It is a specific marker for T lymphocytes, NK T cells, and some thymocytes. Crosslinking of TCR initiates an intracellular signaling cascade resulting in cellular activation and proliferation.

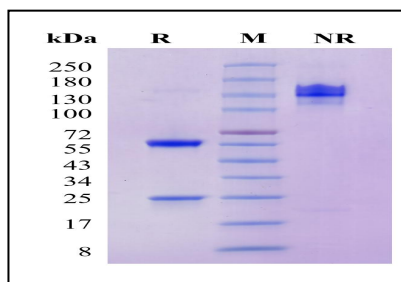
Please feel free to contact us via support@acnovia.com if you need any further



Application References

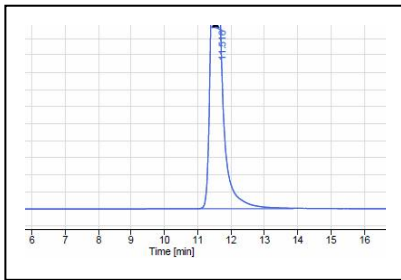
- 1、 Biggs MJ, et al. 2011. J. R. Soc. Interface. 8:1462.
- 2、 Manevich-Mendelson E, et al. 2009. Blood 114:2344.
- 3、 Jeong HY, et al. 2008. J. Leukocyte Biol. 83:755.
- 4、 Li B, et al. 2005. Immunology 116:487.

Product Data



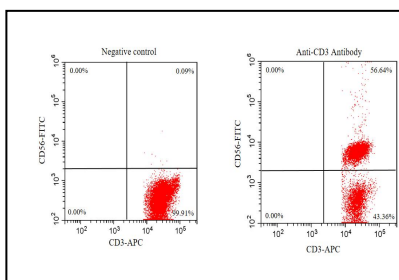
SDS-PAGE

Monoclonal anti-human CD3 antibody on SDS-PAGE under reducing (R) and non-reducing (NR) conditions. The gel was stained with Coomassie Blue. The purity of the protein is greater than 99%.



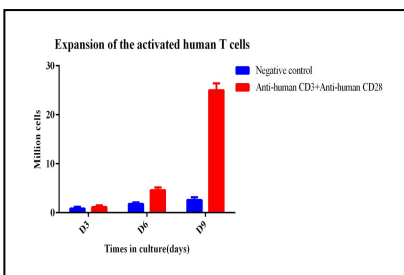
SEC-HPLC

The purity of monoclonal anti-human CD3 antibody was greater than 99% as determined by SEC-HPLC.



Bioactivity-FACS

The purified human T cells were activated using monoclonal anti-human CD3 antibody. Cells were fluorescently stained using APC labeled anti-human CD3 antibody and labeled FITC anti-human CD56 antibody and analyzed by flow cytometry.



Bioactivity-Cell based assay

PBMC derived T cells were activated in the monoclonal anti-human CD3 antibody and anti-human CD28 antibody for a period of 3 days. Activation was done by coated with monoclonal anti-human CD3 antibody, with 1 μ g/mL of each antibody. Cells were cultured for a total of 9 days, and viable cell number was determined.