

TNF alpha Monoclonal Antibody (MAb11), PE-Cyanine7, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Non-human primate, Human, Rhesus monkey
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	MAb11
Conjugate	PE-Cyanine7
Excitation/Emission Max	569/780 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_469686

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	3 Publications
Flow Cytometry (Flow)	0.5 µg/test	41 Publications

Product Specific Information

Description: The MAb11 antibody reacts with human tumor necrosis factor-alpha (TNF alpha), a 17 kDa cytokine produced by monocytes, macrophages, neutrophils, NK cells and CD4+ T cells. TN alpha has cytolytic activity against a range of tumor cells and is important in immune regulation. TNF alpha forms dimers and trimers and also exists as a 26 kDa membrane bound form. The MAb11 antibody is a neutralizing antibody.

Applications Reported: This MAb11 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested: This MAb11 antibody has been tested by intracellular staining and flow cytometric analysis of stimulated human peripheral blood cells using the Intracellular Fixation & Permeabilization Buffer Set (cat. 88-8824) and protocol. Please refer to Best Protocols: Protocol A: Two step protocol for (cytoplasmic) intracellular proteins located under the Resources Tab online.

This MAb11 antibody is offered in 2 formats:- µg size: This can be used at less than or equal to 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest. - test size: has been pre-titrated and tested by intracellular staining and flow

cytometric analysis of stimulated 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 10^5 to 10^8 cells/test.

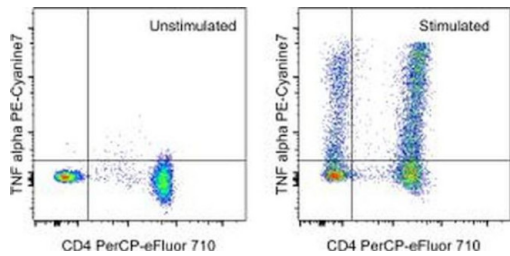
Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 μL cell sample + 100 μL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 μm post-manufacturing filtered.

Product Images For TNF alpha Monoclonal Antibody (MAb11), PE-Cyanine7, eBioscience™



TNF alpha Antibody (25-7349-82) in Flow

Normal human peripheral blood cells were unstimulated (left) or stimulated for 5 hours with Cell Stimulation Cocktail (plus protein transport inhibitors) (Product # 00-4975-03) (right). Cells were intracellularly stained with Anti-Human CD4 PerCP-eFluor® 710 (Product # 46-0047-42) and Anti-Human TNF alpha PE-Cyanine7 using the Intracellular Fixation & Permeabilization Buffer Set (Product # 88-8824-00) and protocol. Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](#)

Immunocytochemistry (3)

Cell reports. Medicine

Targeted T cell receptor gene editing provides predictable T cell product function for immunotherapy.

"25-7349-82 was used in Immunocytochemistry to conclude that increased T cell product homogeneity after targeted TCR gene editing correlates with predictable in vivo T cell responses, which represents a crucial aspect for clinical application in adoptive T cell immunotherapy."

Authors: Müller TR, Jarosch S, Hammel M, Leube J, Grassmann S, Bernard B, Effenberger M, Andrä I, Chaudhry MZ, Käuferle T, Malo A, Cicin-Sain L, Steinberger P, Feuchtinger T, Protzer U, Schumann K, Neuenhahn M, Schober K, Busch DH

Year
2021

Species
Human

Frontiers in immunology

PD-1 Expression on *Mycobacterium tuberculosis*-Specific CD4 T Cells Is Associated With Bacterial Load in Human Tuberculosis.

"25-7349 was used in Immunocytochemistry to study the effect of PD-1 expression on bacterial load and functional capacity of Mycobacterial tuberculosis specific T cell responses."

Authors: Day CL, Abrahams DA, Bunjun R, Stone L, de Kock M, Walzl G, Wilkinson RJ, Burgers WA, Hanekom WA

Year
2019

Species
Human

[View more ICC/IF references on thermofisher.com](#)

Flow Cytometry (41)

Nature communications

PRDM1/BLIMP1 induces cancer immune evasion by modulating the USP22-SPI1-PD-L1 axis in hepatocellular carcinoma cells.

"Published figure using TNF alpha monoclonal antibody (Product # 25-7349-82) in Flow Cytometry"

Authors: Li Q, Zhang L, You W, Xu J, Dai J, Hua D, Zhang R, Yao F, Zhou S, Huang W, Dai Y, Zhang Y, Baheti T, Qian X, Pu L, Xu J, Xia Y, Zhang C, Tang J, Wang X

Year
2022

Frontiers in immunology

Safety and Immunogenicity of Malaria Vectored Vaccines Given with Routine Expanded Program on Immunization Vaccines in Gambian Infants and Neonates: A Randomized Controlled Trial.

"25-7349 was used in Flow cytometry/Cell sorting to demonstrate malaria vectored prime-boost vaccines co-administered with routine childhood immunizations were well tolerated. Potent humoral and cellular immunity induced by ChAd63 MVA ME-TRAP did not reduce the immunogenicity of co-administered EPI vaccines, supporting further evaluation of this regimen in infant populations."

Authors: Mensah VA, Roetyncyn S, Kante E, Bowyer G, Ndaw A, Oko F, Bliss CM, Jagne YJ, Cortese R, Nicosia A, Roberts R, D'Alessio F, Leroy O, Faye B, Kampmann B, Cisse B, Bojang K, Gerry S, Viebig NK, Lawrie AM, Clarke E, Imoukhuede EB, Ewer KJ, Hill AVS, Afolabi MO

Year
2022

Species
Human

Dilution
1:500

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

More applications with references on thermofisher.com

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