

# 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 10<sup>5</sup> to 10<sup>8</sup> 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  $\mu$ L (0.25  $\mu$ g) per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test.

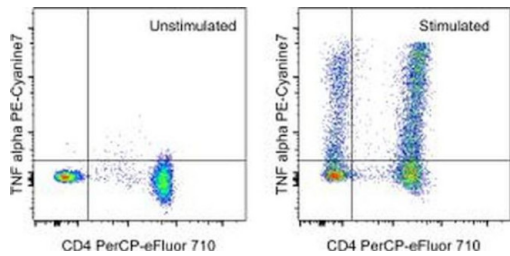
Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100  $\mu$ L cell sample + 100  $\mu$ L 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  $\mu$ m 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.

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## Immunocytochemistry (3)

<p><b>Cell reports. Medicine</b></p> <p><b>Targeted T cell receptor gene editing provides predictable T cell product function for immunotherapy.</b></p> <p>"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."</p> <p>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</p>	<p><b>Year</b> 2021</p> <p><b>Species</b> Human</p>
<p><b>Frontiers in immunology</b></p> <p><b>PD-1 Expression on <i>Mycobacterium tuberculosis</i>-Specific CD4 T Cells Is Associated With Bacterial Load in Human Tuberculosis.</b></p> <p>"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."</p> <p>Authors: Day CL,Abrahams DA,Bunjun R,Stone L,de Kock M,Walzl G,Wilkinson RJ,Burgers WA,Hanekom WA</p>	<p><b>Year</b> 2019</p> <p><b>Species</b> Human</p>

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## Flow Cytometry (41)

<p><b>Nature communications</b></p> <p><b>PRDM1/BLIMP1 induces cancer immune evasion by modulating the USP22-SPI1-PD-L1 axis in hepatocellular carcinoma cells.</b></p> <p>"Published figure using TNF alpha monoclonal antibody (Product # 25-7349-82) in Flow Cytometry"</p> <p>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</p>	<p><b>Year</b> 2022</p>
<p><b>Frontiers in immunology</b></p> <p><b>Safety and Immunogenicity of Malaria Vectored Vaccines Given with Routine Expanded Program on Immunization Vaccines in Gambian Infants and Neonates: A Randomized Controlled Trial.</b></p> <p>"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."</p> <p>Authors: Mensah VA,Roetyncyn S,Kanteh EK,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</p>	<p><b>Year</b> 2022</p> <p><b>Species</b> Human</p> <p><b>Dilution</b> 1:500</p>

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## More applications with references on thermofisher.com

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