

## Anti-TNF alpha Antibody (8E395)

## Product Details

Ig Type:	IgG
Reactivity:	Human
Molecular Weight:	Theoretical: 17/26 kDa.
Clone:	8E395
Purification:	Protein G purified

## Applications

Verified Activity:	<p>1. Blank control: THP-1. Primary Antibody (green line): Mouse Anti-TNF alpha antibody (TMAB-13621) Dilution: 1 µg/Test; Secondary Antibody: Goat anti-mouse IgG-BF488 Dilution: 0.5 µg/Test.</p> <p>The cells were treated with TPA (80 nM, overnight) and then treated with LPS (1 µg/mL, 18 hr/6 hr) and Brefeldin A (300 ng/mL, last 3 hr of stimulation). The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.</p> <p>2. (LPS (100 ng/ml, 16 h) and Brefeldin A treated (5 µg/ml, 4 h)) THP-1 (H) cells; Antibody incubation with (TNF alpha) monoclonal Antibody, unconjugated (TMAB-13621) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Mouse IgG antibody (green) at 37°C for 90 min, DAPI (blue) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.</p>
Application:	ICC/IF,FCM
Recommended	ICC/IF: 1:100-500; FCM: 1µg/Test

## Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	Recombinant Protein: human TNF alpha protein
Antigen Species:	Human
Gene ID:	7124
Uniprot ID:	P01375

## Research Background

This gene encodes a multifunctional proinflammatory cytokine that belongs to the tumor necrosis factor (TNF) superfamily. This cytokine is mainly secreted by macrophages. It can bind to, and thus functions through its receptors TNFRSF1A/TNFR1 and TNFRSF1B/TNFR. This cytokine is involved in the regulation of a wide spectrum of

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biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. This cytokine has been implicated in a variety of diseases, including autoimmune diseases, insulin resistance, psoriasis, rheumatoid arthritis ankylosing spondylitis, tuberculosis, autosomal dominant polycystic kidney disease, and cancer. Mutations in this gene affect susceptibility to cerebral malaria, septic shock, and Alzheimer disease. Knockout studies in mice also suggested the neuroprotective function of this cytokine. [provided by RefSeq, Aug 2020]

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