

RF647 Mouse Anti-Human TNF- α

Purified RF647-conjugated Recombinant Mouse Monoclonal Antibody

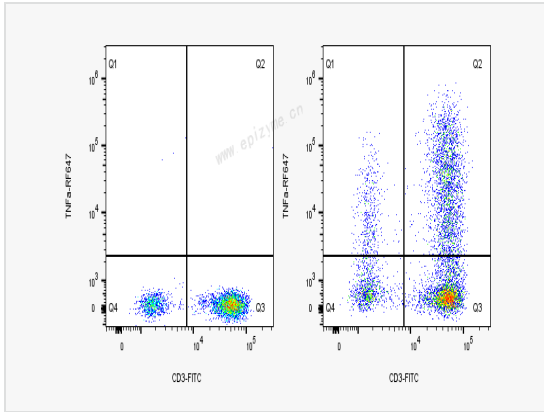
Catalog # F107016

Product Information

Application	FC
Recommended Usage	5 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood.
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone No.	67B74P03
Isotype	IgG1, κ
Label	RF647 (Ex/Em: 650/671 nm)
Immunogen	Recombinant protein of human TNF- α
Format	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA.
Storage	Shipped on wet ice. Store undiluted between 2°C and 8°C and protected from prolonged exposure to light. Do not freeze.
Precautions	RF647 Mouse Anti-Human TNF- α [67B74P03] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	TNFA; TNFSF2; TNF; Tumor necrosis factor; Cachectin; TNF-alpha; Tumor necrosis factor ligand superfamily member 2; TNF-a.
Uniprot ID	P01375
Gene ID	7124
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/TNFR2. This cytokine is involved in the regulation of a wide spectrum of 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]
Cellular Location	Cell membrane; Single-pass type II membrane protein. Tumor necrosis factor, membrane form: Membrane ; Single-pass type II membrane protein. Tumor necrosis factor, soluble form: Secreted. C-domain 1: Secreted. C-domain 2: Secreted.
Tissue Location	Bgee: Expressed in granulocyte and 90 other cell types or tissues. ExpressionAtlas: baseline and differential. HPA: Tissue enhanced (bone marrow, lymphoid tissue)



Typical flow cytometry plots of human peripheral blood lymphocytes stimulated with PMA and ionomycin for 6 h in the presence of brefeldin A (BFA), stained with anti-CD3-FITC (F100105), followed by fixation, permeabilization, and intracellular staining with anti-TNF α -RF647 (F107016) (right), or with anti-CD3-FITC (F100105) alone as a control (left).