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Anti-Human TNF-alpha Antibody, Clone MT15B15, PF488P

Mouse monoclonal antibody against human TNF-alpha, PF488P-conjugated

Catalog #100-1462 100 Tests 5 µL/test

Product Description

This mouse monoclonal antibody (clone MT15B15) reacts with human tumor necrosis factor alpha (TNF-α). TNF-α is a pro-inflammatory cytokine primarily produced by macrophages and T cells in response to infection and inflammation. Initially generated as a ~26 kDa transmembrane precursor, TNF-α is then processed by metalloproteinases into a ~17 kDa soluble product. Both forms of TNF-α are active in trimeric form and exert their effects via binding to either TNFR1, present on the surface of nearly all human cell types, or TNFR2, which is localized to immune and endothelial cells. First described as having tumor-necrotic action, TNF-α signaling results in an inflammatory response that includes vasodilation and edema formation, adhesion of leukocytes to the epithelium, and blood coagulation. TNF-α also plays a key role in defense against bacterial, viral, and parasitic infections. The MT15B15 antibody is suitable for the detection of intracellular TNF-α by flow cytometry.

Target Antigen:	TNF-alpha
Alternative Names:	Cachectin, DIF, DIF-alpha, differentiation inducing factor, TNF, TNF-α, TNF-a, TNFa, TNFA, TNFSF2, TNLG1F, tumor necrosis factor, tumor necrosis factor-α
Gene ID:	7124
Species Reactivity:	Human
Host Species:	Mouse
Clonality:	Monoclonal
Clone:	MT15B15
Isotype:	IgG1
Immunogen:	Recombinant human TNF-α
Conjugate:	PF488P

Applications

Verified Applications: FC

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence-activated cell sorting; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IHC-P: Immunohistochemistry (paraffin-embedded); IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

Properties

Purification: The antibody was purified by affinity chromatography and conjugated with PF488P.

Stability and Storage: Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to light. Stable until expiry date (EXP) on label.

Directions for Use: For flow cytometry, the suggested use of this antibody is 5 uL per 1 x 10^6 cells in 50 µL. It is recommended that the antibody be titrated for optimal performance for each application.

Data

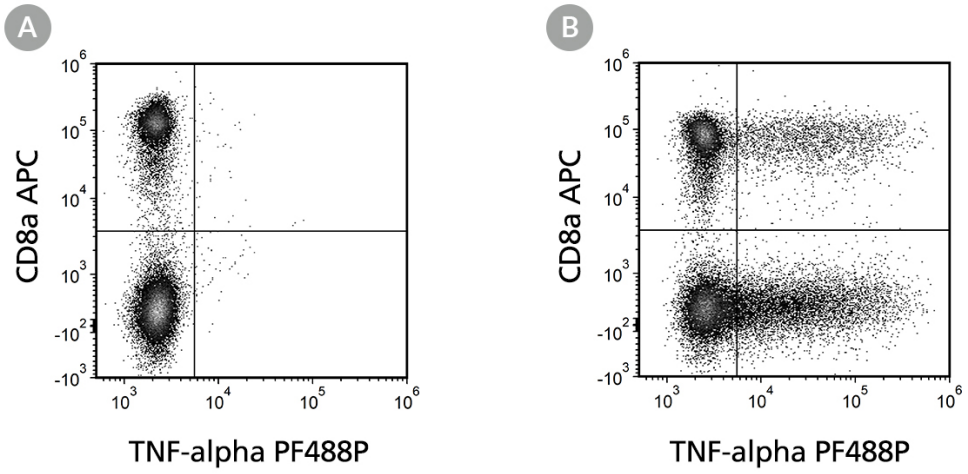

Figure 2. Flow Cytometry Analysis of Unstimulated and Stimulated Human T Cells Labeled With Anti-Human TNF-alpha Antibody, Clone MT15B15, PF488P

(A) Flow cytometry analysis of unstimulated human T cells labeled with anti-human TNF-alpha Antibody, Clone MT15B15, PF488P and anti-human CD8a antibody, clone RPA-T8, APC (Catalog #60022AZ.1). (B) Flow cytometry analysis of PMA/ionomycin-stimulated human T cells labeled with anti-human TNF-alpha Antibody, Clone MT15B15, PF488P and anti-human CD8a antibody, clone RPA-T8, APC (Catalog #60022AZ.1).

Related Products

For a complete list of antibodies, including other conjugates, sizes, and clones, as well as related products available from STEMCELL Technologies, visit www.stemcell.com/antibodies, or contact us at techsupport@stemcell.com.

References

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