

ARG65483 anti-TNF alpha antibody [MAb11] (FITC)

Package: 50 tests
Store at: 4°C

Summary

Product Description	FITC-conjugated Mouse Monoclonal antibody [MAb11] recognizes TNF-alpha
Tested Reactivity	Hu, NHuPrm, Pig
Tested Application	FACS
Specificity	The clone MAb11 recognizes human 17-26 kDa cytokine TNF-alpha (tumor necrosis factor alpha).
Host	Mouse
Clonality	Monoclonal
Clone	MAb11
Isotype	IgG1
Target Name	TNF alpha
Species	Human
Immunogen	Recombinant human TNF-alpha
Conjugation	FITC
Alternate Names	Tumor necrosis factor ligand superfamily member 2; DIF; Cachectin; ICD2; ICD1; N-terminal fragment; TNF-a; TNFA; TNFSF2; TNF-alpha; Tumor necrosis factor; NTF

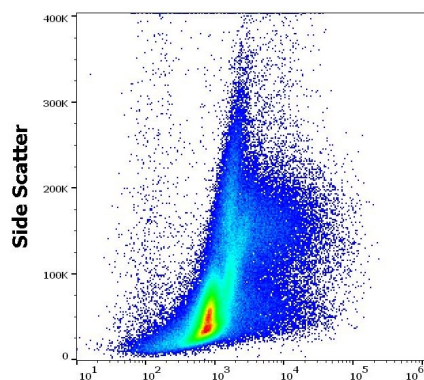
Application Instructions

Application table	Application	Dilution
	FACS	4 µl / 10 ⁶ cells
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

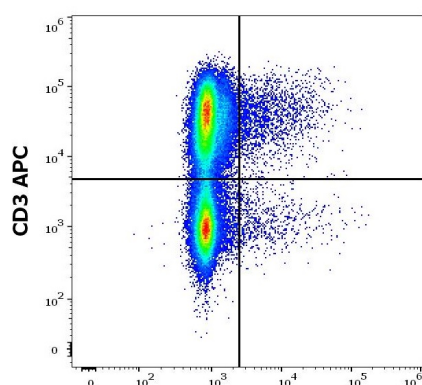
Form	Liquid
Purification Note	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.
Buffer	PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA
Preservative	15 mM Sodium azide
Stabilizer	0.2% (w/v) high-grade protease free BSA
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Database links	GeneID: 397086 Pig GeneID: 7124 Human Swiss-port # P01375 Human Swiss-port # P23563 Pig
Gene Symbol	TNF
Gene Full Name	tumor necrosis factor
Background	<p>TNF-alpha is a cytokine produced by monocytes, macrophages, neutrophils, NK cells, CD4+ T cells and many transformed cells. It can be expressed as a 17 kDa free molecule, or as a 26 kDa membrane protein. TNF-alpha easily forms stable trimers, but also other multimeric complexes. In the immune system, it is an important regulator, which has cytolytic and cytostatic activity against a range of tumor cells, increases fibroblast proliferation and supports neutrophil chemotaxis and phagocytosis.</p>
Function	<p>Cytokine that binds to TNFRSF1A/TNFR1 and TNFRSF1B/TNFR. It is mainly secreted by macrophages and can induce cell death of certain tumor cell lines. It is potent pyrogen causing fever by direct action or by stimulation of interleukin-1 secretion and is implicated in the induction of cachexia. Under certain conditions it can stimulate cell proliferation and induce cell differentiation. Impairs regulatory T-cells (Treg) function in individuals with rheumatoid arthritis via FOXP3 dephosphorylation. Upregulates the expression of protein phosphatase 1 (PP1), which dephosphorylates the key 'Ser-418' residue of FOXP3, thereby inactivating FOXP3 and rendering Treg cells functionally defective (PubMed:23396208). The TNF intracellular domain (ICD) form induces IL12 production in dendritic cells. [UniProt]</p>
Highlight	<p>Related products: TNF alpha antibodies; TNF alpha ELISA Kits; TNF alpha Duos / Panels; TNF alpha recombinant proteins; Anti-Mouse IgG secondary antibodies; Related news: HMGB1 in inflammation Inflammatory Cytokines</p>
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Immune System antibody; Metabolism antibody; Signaling Transduction antibody
Calculated Mw	26 kDa
PTM	<p>The soluble form derives from the membrane form by proteolytic processing. The membrane-bound form is further proteolytically processed by SPPL2A or SPPL2B through regulated intramembrane proteolysis producing TNF intracellular domains (ICD1 and ICD2) released in the cytosol and TNF C-domain 1 and C-domain 2 secreted into the extracellular space.</p> <p>The membrane form, but not the soluble form, is phosphorylated on serine residues. Dephosphorylation of the membrane form occurs by binding to soluble TNFRSF1A/TNFR1.</p> <p>O-glycosylated; glycans contain galactose, N-acetylgalactosamine and N-acetylneuraminic acid.</p>



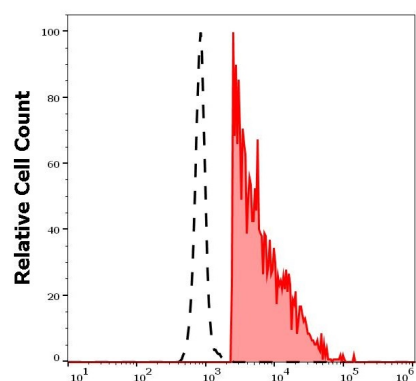
ARG65483 anti-TNF alpha antibody [MAb11] (FITC) FACS image

Flow Cytometry: PHA stimulated human peripheral blood mononuclear cells stained with ARG65483 anti-TNF alpha antibody [MAb11] (FITC) (4 μ l reagent / 10^6 cells in 100 μ l of cell suspension).



ARG65483 anti-TNF alpha antibody [MAb11] (FITC) FACS image

Flow Cytometry: PHA stimulated human peripheral blood mononuclear cells stained with ARG65483 anti-TNF alpha antibody [MAb11] (FITC) (4 μ l reagent / 10^6 cells in 100 μ l of cell suspension). Cells were co-stained with [ARG54302](#) anti-CD3 antibody [UCHT1] (APC) (10 μ l reagent / 10^6 cells in 100 μ l of cell suspension).



ARG65483 anti-TNF alpha antibody [MAb11] (FITC) FACS image

Flow Cytometry: Separation of human TNF alpha positive CD3 positive cells (red-filled) from TNF alpha negative CD3 negative cells (black-dashed). Human PHA stimulated peripheral blood mononuclear cells stained with ARG65483 anti-TNF alpha antibody [MAb11] (FITC) (4 μ l reagent / 10^6 cells in 100 μ l of cell suspension).