

Mouse Anti-TNF Monoclonal Antibody

Cat. No. DMABT-H19209 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse Anti-TNF Monoclonal Antibody
Species	Human
Source	Mouse
Antigen Description	TNF-alpha is secreted by macrophages, monocytes, neutrophils, T-cells (principally CD4+), and NK-cells. Many transformed cell lines also secrete TNF-alpha. Monomeric human TNF-alpha is a 157 amino acid protein (non-glycosylated) with a reported molecular weight of 28kD. TNF-alpha forms multimeric complexes; stable trimers are most common in solution. A 37kD membrane form of TNF-alpha has also been described. TNF-alpha binding to surface receptors elicits a wide array of biologic activities including: cytolysis and cytostasis of many tumor cell lines in vitro, hemorrhagic necrosis of tumors in vivo, increased fibroblast proliferation, and enhanced chemotaxis and phagocytosis in neutrophils.
Target	TNF
Immunogen	E. coli-expressed, recombinant human TNF-alpha
Isotype	IgG1, kappa
species	Human
Conjugation	Alexa Fluor 488

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Applications	N/A
Preparation	The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor 488 under optimal conditions. The solution is free of unconjugated Alexa Fluor 488.
Usage recommendation	Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is 5 µl per 10 ⁶ cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.* Alexa Fluor 488 has a maximum emission of 519 nm when it is excited at 488 nm.** Alexa Fluor is a registered trademark of Molecular Probes, Inc. Alexa Fluor dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents. View full statement regarding label licenses
Storage	The antibody solution should be stored undiluted at 4 °C and protected from prolonged exposure to light. Do not freeze.
Size	25 tests; 100 tests

GENE INFORMATION

Gene Name	TNF tumor necrosis factor [Homo sapiens]
Official Symbol	TNF
Synonyms	TNF; tumor necrosis factor; TNFA, tumor necrosis factor (TNF superfamily, member 2); DIF; TNF superfamily, member 2; TNF alpha; TNFSF2; TNF-α; cachectin; APC1 protein; TNF, monocyte-derived; TNF, macrophage-derived; TNF superfamily, member 2; tumor necrosis factor alpha; tumor necrosis factor-alpha; tumor necrosis

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	factor ligand superfamily member 2; TNFA; TNF-alpha;
Gene ID	7124
mRNA Refseq	NM_000594
Protein Refseq	NP_000585
MIM	191160
UniProt ID	P01375
Chromosome Location	6p21.3
Pathway	Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; Adipogenesis, organism-specific biosystem; African trypanosomiasis, organism-specific biosystem; African trypanosomiasis, conserved biosystem; Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem;
Function	cytokine activity; identical protein binding; protease binding; protein binding; transcription regulatory region DNA binding; tumor necrosis factor receptor binding;