



Anti-TNF- α monoclonal antibody, clone NQ7-YU4 (DMAB8294RM)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Rat Anti-Mouse TNF- α Monoclonal Antibody
Antigen Description	Apoptosis, or programmed cell death, is a well-documented phenomenon in many cellular systems. It plays a key role in tissue and organ development as well as in adult tissues during cell turnover. Apoptosis can be induced by a variety of internal and external stimuli including growth factor deprivation, cytokine treatment, antigen-receptor engagement, cell-cell interactions, irradiation and glucocorticoid treatment. Bcl-2 is a widely studied protein that has been shown to be a potent inhibitor of programmed cell death. It has been localized to the outer mitochondrial membrane, perinuclear membrane, and endoplasmic reticulum. Bcl-2 is expressed in memory and resting, or other long-lived lymphoid cells, follicular mantle cells, medullary thymocytes, and lymphomas. Germinal center cells and cortical thymocytes are negative for Bcl-2. Upregulation of Bcl-2 prevents or delays apoptosis induced by a variety of stimuli, including growth factor deprivation, γ -irradiation, glucocorticoids, and chemotherapeutic agents. During lymphoid development, expression of the Bcl-2 protein appears to be regulated in a stage-specific manner, and is thought to be a survival signal for positive selection.
Specificity	Mouse Tumor Necrosis Factor- α (TNF- α). This is a neutralizing antibody.
Immunogen	E. coli-expressed recombinant mouse TNF- α
Isotype	IgG1
Source/Host	Rat
Species Reactivity	Mouse
Clone	NQ7-YU4
Conjugate	Unconjugated

Applications	ELISA, WB, Neut, ELISA(Det)
Format	Low Endotoxin, Azide-Free (LE/AF)
Size	500 µg
Preservative	None
Storage	The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of PBS. Aliquot and store at or below -20°C.; Protect conjugated forms from light. Aliquot and freeze the low endotoxin, azide-free product at -20°Cimme

GENE INFORMATION

Gene Name	Tnf tumor necrosis factor [Mus musculus]
Synonyms	Tnf; DIF; Tnfa; TNFSF2; Tnfsf1a; TNFalpha; TNF-alpha; tumor necrosis factor; TNF-a; TNF alpha; cachectin; tumor necrosis factor alpha; tumor necrosis factor-alpha; tumor necrosis factor ligand superfamily member 2
Entrez Gene ID	7124
Protein Refseq	NP_038721
UniProt ID	P01375
Chromosome Location	17 B1; 17 19.06 cM
Pathway	Adipocytokine signaling pathway; Adipogenesis; African trypanosomiasis; Allograft rejection; Alzheimer"s disease; Amoebiasis; Amyotrophic lateral sclerosis (ALS); Antigen processing and presentation; Apoptosis; Asthma
Function	cytokine activity; identical protein binding; protease binding; protein binding; transcription regulatory region DNA binding; tumor necrosis factor receptor binding