

Product datasheet for **AM01290PU-N**

TNF alpha (TNF) Rat Monoclonal Antibody [Clone ID: GMO1-17A2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	GMO1-17A2
Applications:	ELISA, FC
Recommended Dilution:	ELISA: 1-5 µg/ml. Flow Cytometry: Use 10 µl of 1/10-1/50 diluted antibody to label 10e6 cells in 100 µl (Membrane permeabilisation is required).
Reactivity:	Human
Host:	Rat
Isotype:	IgG1
Clonality:	Monoclonal
Specificity:	This antibody is specific for Tumour Necrosis Factor-alpha (TNF alpha), also known as TNFSF2.
Formulation:	PBS containing 0.09% Sodium Azide as preservative. State: Purified State: Liquid purified IgG fraction.
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	tumor necrosis factor
Database Link:	Entrez Gene 7124 Human P01375



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Background:

Tumor Necrosis Factor Alpha (TNF alpha) is a protein secreted by lipopolysaccharide stimulated macrophages, and causes tumor necrosis when injected into tumour bearing mice. TNF alpha is believed to mediate pathogenic shock and tissue injury associated with endotoxemia. TNF alpha exists as a multimer of two, three, or five noncovalently linked units, but shows a single 17 kDa band following SDS PAGE under non reducing conditions. TNF alpha is closely related to the 25 kDa protein Tumour Necrosis Factor beta (lymphotoxin), sharing the same receptors and cellular actions. TNF alpha causes cytolysis or cytostasis of certain transformed cells, being synergistic with interferon gamma in its cytotoxicity. Although it has little effect on many cultured normal human cells, TNF alpha appears to be directly toxic to vascular endothelial cells. Other actions of TNF alpha include stimulating growth of human fibroblasts and other cell lines, activating polymorphonuclear neutrophils and osteoclasts, and induction of interleukin 1, prostaglandin E2 and collagenase production. TNF alpha is currently being evaluated in treatment of certain cancers and AIDS Related Complex. TNF alpha is predominantly expressed by macrophages, monocytes, neutrophils, T cells and NK cells stimulated by bacterial lipopolysaccharides.

Synonyms:

TNF, TNF-a, TNFA, TNFSF2, Cachectin