

## Product datasheet for **AM26201PU-N**

### **TNF alpha (TNF) Mouse Monoclonal Antibody [Clone ID: 5N]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	5N
Applications:	ELISA, FN
Recommended Dilution:	Immunoassay. The homologous ELISA is useful for the detection of oligomeric human TNF-alpha. It does not recognize monomeric TNF-alpha. Functional assay: Inhibition of biological activity of TNF-alpha.
Reactivity:	Bovine, Canine, Human, Monkey
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Specificity:	This antibody cross-reacts and cross-neutralizes all monkey species TNF-alpha, except pig-tail macaque. With affinity about two orders lower it recognizes bovine and canine TNF-alpha.
Formulation:	PBS State: Purified State: Liquid 0.2 µm filtered Ig fraction Stabilizer: 0.1% bovine serum albumin
Concentration:	lot specific
Purification:	Protein G
Conjugation:	Unconjugated
Storage:	Store at 2 - 8 °C.
Stability:	Shelf life: one year from despatch.
Gene Name:	tumor necrosis factor
Database Link:	<a href="#">Entrez Gene 7124 Human P01375</a>



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**Background:**

Tumor necrosis factor-alpha (TNF-alpha), a homotrimeric 17 KD protein, is a potent mediator of inflammatory and metabolic functions. TNF-alpha was originally detected as a highly cytotoxic cytokine for tumor cells, it causes tumor necrosis in vivo and shows cytolytic activity against tumor cells in vitro. Further TNF-alpha has been implied as central mediator in shock induced by gram negative micro-organisms.

The cytokine TNF-alpha is found to be a central mediator in many inflammatory and immunological processes: it can be induced by various products of micro-organisms and by various cytokines but it also induces on its turn the production of many cytokines.

Signal transduction occurs via two types of TNF-receptors, the TNF-receptors I and II. The receptors differ strongly in their intra-cellular signaling pathways.

The TNF-alpha trimer interacts with either of the two types of TNF-R leading to receptor cross-linking.

**Synonyms:**

TNF, TNF-a, TNFA, TNFSF2, Cachectin