

## Product datasheet for **AM26298PU-N**

### TNF alpha (TNF) Mouse Monoclonal Antibody [Clone ID: 52B83]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	52B83
Applications:	IHC, WB
Recommended Dilution:	Immunohistochemistry on frozen sections (4): 6- $\mu$ m tissue sections were fixed in acetone for 10 minutes (Ref. 4). Immunohistochemistry on paraffin sections (5): Tissue sections were fixed in 5% formalin embedded in paraffin and cut into 2 $\mu$ m sections (Ref. 5). Flow cytometry (3): Antibody 52B83 was used to stain soluble TNF bound to TNF receptors. Cells were fixed in PBA containing 0.2% formaldehyde (Ref. 3). Western blot: A reduced sample treatment and 15% SDS-Page was used. The band size observed is 17 kDa (Ref.4). The typical starting working dilution is 1:50.
Reactivity:	Guinea Pig, Human, Mouse, Monkey, Rhesus Monkey
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Specificity:	The monoclonal antibody 52B83 reacts with tumor necrosis factor alpha (TNF-alpha).
Formulation:	PBS State: Purified State: Liquid 0.2 $\mu$ m filtered Ig fraction Stabilizer: 0.1% bovine serum albumin Preservative: 0.02% sodium azide
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



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**Database Link:** [Entrez Gene 7124 Human P01375](#)

**Background:** TNF-alpha is a homotrimeric 17 kDa protein, that interacts with either one of the two types of TNF-receptors, termed I and II, leading to receptor cross-linking and signal transduction. The receptors differ strongly in their intra-cellular signaling pathways. TNF-alpha was originally described as a highly cytotoxic cytokine for tumor cells, it causes tumor necrosis in vivo and shows cytolytic activity against tumor cells in vitro. Furthermore, 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 leading to expression of a wide variety of cytokines. The pro-inflammatory properties of TNF-alpha play a central role in several auto-immune diseases such as rheumatoid arthritis and inhibition by neutralizing molecules have been shown to be beneficial in patients.

**Synonyms:** TNF, TNF-a, TNFA, TNFSF2, Cachectin