

Product datasheet for **AM26058PU-N**

TNF alpha (TNF) Mouse Monoclonal Antibody [Clone ID: 2C8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2C8
Applications:	ELISA, FN
Recommended Dilution:	This Monoclonal antibody 2C8 is useful for studying biological effects of TNF-alpha <i>in vitro</i> and <i>in vivo</i> . The antibody is Neutralizing TNF-alpha effects <i>in vitro</i> . 2C8 can also be used as a Capture antibody in a Sandwich ELISA to quantitate TNF-alpha.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant Human TNF alpha
Formulation:	PBS, pH 7.2 State: Aff - Purified State: Lyophilized purified Ig fraction Stabilizer: None Preservative: None
Reconstitution Method:	Restore with 0.5ml distilled water.
Concentration:	0.2 mg/ml (after reconstitution)
Purification:	Affinity Chromatography, Endotoxin depleted
Conjugation:	Unconjugated
Storage:	Prior to reconstitution store at 2-8°C. Following reconstitution store (in aliquots) at -20°C. 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:	<p>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.</p> <p>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.</p> <p>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.</p> <p>The TNF-alpha trimer interacts with either of the two types of TNF-R leading to receptor cross-linking.</p>
Synonyms:	TNF, TNF-a, TNFA, TNFSF2, Cachectin
Protein Families:	Druggable Genome, Secreted Protein, Transcription Factors, Transmembrane
Protein Pathways:	Adipocytokine signaling pathway, Allograft rejection, Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Apoptosis, Asthma, Cytokine-cytokine receptor interaction, Dilated cardiomyopathy, Fc epsilon RI signaling pathway, Graft-versus-host disease, Hematopoietic cell lineage, Hypertrophic cardiomyopathy (HCM), MAPK signaling pathway, Natural killer cell mediated cytotoxicity, NOD-like receptor signaling pathway, RIG-I-like receptor signaling pathway, Systemic lupus erythematosus, T cell receptor signaling pathway, TGF-beta signaling pathway, Toll-like receptor signaling pathway, Type I diabetes mellitus, Type II diabetes mellitus