





TNF Monoclonal Antibody

Product Code	CSB-MA084771A0m
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Immunogen	Recombinant Bovine TNF alpha protein
Raised In	mouse
Species Reactivity	Bovine
Tested Applications	ELISA
Relevance	Tumor necrosis factor alpha (TNF α ,also known as cachectin and TNFSF1A, is the prototypic ligand of the TNF superfamily. It is a pleiotropic molecule that plays a central role in inflammation, apoptosis, and immune system development. TNF α is produced by a wide variety of immune and epithelial cell types. Bovine TNF α consisits of a 35 amino acid (aa) cytoplasmic domain, a 21 aa transmembrane segment, and a 178 aa extracellular domain (ECD). Within the ECD, bovine TNF α shares 64%-83% sequence identity with canine, cotton rat, equine, feline, human, mouse, porcine, rat, and rhesus TNF α . The 26 kDa type 2 transmembrane protein is assembled intracellularly to form a noncovalently linked homotrimer. Ligation of this complex induces reverse signaling that promotes lymphocyte costimulation but diminishes monocyte responsiveness. Cleavage of membrane bound TNF α by TACE/ADAM17 releases a 55 kDa soluble trimeric form of TNF α . TNF α trimers bind the ubiquitous TNF RI and the hematopoietic cell restricted TNF RII, both of which are also expressed as homotrimers. TNF α regulates lymphoid tissue development through control of apoptosis. It also promotes inflammatory responses by inducing the activation of vascular endothelial cells and macrophages. TNF α is a key cytokine in several inflammatory disorders. It contributes to the development of type 2 diabetes through its effects on insulin resistance and fatty acid metabolism.
Form	liquid
Conjugate	Non-conjugated
Storage Buffer	Preservative: 0.03% Proclin 300Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Purification Method	>95%,Protein G purified
Isotype	lgG2b
Clonality	monoclonal
Alias	Cachectin, TNF-alpha, Tumor necrosis factor ligand superfamily member 2
Product Type	Monoclonal Antibody
Immunogen Species	Bos taurus (Bovine)
Clone No.	2E1A5