

MACO0517

Product Information

Size:

50ug

Reactivity:

Bovine

Source:

Mouse

Isotype:

IgG2b

Applications:

ELISA

Recommended dilutions:**Protein Background:**

Tumor necrosis factor alpha (TNF alpha, 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 alpha is produced by a wide variety of immune and epithelial cell types. Bovine TNF alpha consists 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 alpha shares 64%-83% sequence identity with canine, cotton rat, equine, feline, human, mouse, porcine, rat, and rhesus TNF alpha. 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 alpha by TACE/ADAM17 releases a 55 kDa soluble trimeric form of TNF alpha.

Gene ID:

TNF

Uniprot

Q06599

Synonyms:

Cachectin, TNF-alpha, Tumor necrosis factor ligand superfamily member 2

Immunogen:

Recombinant Bovine TNF alpha protein

Storage:

Preservative: 0.03% Proclin 300. Constituents: 50% Glycerol, 0.01M PBS, PH 7.4

Product Images

N/A

N/A