

Product Information

Anti-Human TNF-α Protein A scaffold

Cat. No.: AFB-37LY

This product is for research use only and is not intended for diagnostic use.

Product Overview

The Anti-TNF- α Protein A Scaffold molecule was selected against human TNF- α . The Anti-TNF- α Protein A Scaffold molecule is an ideal affinity ligand as a capture reagent in ELISA and as detection reagent in dot blot. The Anti-TNF- α Protein A Scaffold molecule is modified with a unique C-terminal cysteine for directed single-point chemical modification, facilitating labeling with fluorescent dyes, biotin or coupling to matrices.

Antigen Description

Human TNF- α (Tumour Necrosis Factor-alpha) is a nonglycosylated protein of 17 kD belonging to the TNF superfamily of cytokines. TNF- α is produced by activated macrophages and Tlymphocyte and forms trimers spontaneously. TNF- α shows a wide spectrum of biological activities that are mediated by binding to TNFRI and TNFRII receptors. Besides causing cytolysis and cytostasis of many tumour cell lines in vitro, TNF- α has an important role in host defences against pathogens. However, excess TNF- α seen in sepsis and diseases of autoimmune character, has severe pathological consequences and the neutralisation of TNF- α has been a successful treatment procedure for rheumatoid arthritis.

Specific Activity

Anti-TNF- α Protein A scaffold molecule binds to human cytokine tumor necrosis factor α , TNF- α . Cross reactivity with other species has not been tested.

Source

Display library

Species Reactivity

human

Expression Host

E. coli

Applications

Suitable as capture reagent in ELISA and as detection reagent in dot blot.

Molecular Weight

13.7 kDa

Storage

At +4°C is recommended for lyophilized protein. For reconstituted protein in physiological buffer, short-term storage at +4°C is recommended. For long-term storage, the protein solution should be aliquoted and then stored at -20°C. There is no decrease in

ANTIGEN GENE INFOMATION

Gene Name

TNF tumor necrosis factor [Homo sapiens]

Official Symbol

TNF

Synonyms

DIF; TNFA; TNFSF2; TNF-alpha; tumor necrosis factor; APC1 protein; Cachectin; tumor necrosis factor-alpha; TNF, macrophage-derived; Differentiation inducing factor; Macrophage cytotoxic factor; MCF; Necrosin; TNFalpha; TNF Monocyte Derived; TNF Superfamily Member 2; TNF superfamily, member 2; TNF, monocyte derived; TNFA; Tumor necrosis factor alpha; Tumor necrosis factor ligand superfamily member 2; Tumor Necrosis Factor Precursor; Tumor necrosis factor, soluble form; Tumour Necrosis Factor Alpha

Gene ID

7124

mRNA Refseq

NM 000594.2

Protein Refseq

NP 000585.2

MIM

<u>191160</u>

UniProt ID

P01375

Chromosome Location

6p21.3

Pathway

Adipocytokine signaling pathway; Adipogenesis; African trypanosomiasis; Allograft rejection; Alzheimer"s disease; Amoebiasis; Amyotrophic lateral sclerosis (ALS);

Function

cytokine activity; identical protein binding; protease binding; protein binding; transcription regulatory region DNA binding; tumor necrosis factor receptor binding