SUITE 203, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-416-1478 Fax: 1-631-207-8356
Email: info@creative-biolabs.com
www.creative-biolabs.com

Product Information

Anti-Human TNF-α Protein A scaffold, Agarose-Immobilized

Cat. No.: **AFB-38LY**
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 molecule is immobilized on agarose at the unique C-terminal cysteine. The Agarose-Immobilized Anti-TNF-α Protein A Scaffold molecule is excellent for immunoprecipitation studies of TNF-α present in cell extracts or other solutions that contain TNF-α proteins. In addition, the Anti-TNF-α Protein A Scaffold molecule may also be used for affinity chromatography.

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

Immunoprecipitation.

Molecular Weight

13.7 kDa

Storage

At +4°C. Avoid freezing. There is no decrease in performance of the Agarose-Immobilized Protein A Scaffold molecule after storage for 2 weeks at +37°C.

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

191160

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

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