

For Research Use Only

NeutraKine® TNF-alpha Monoclonal antibody, PBS Only

Catalog Number: 69002-1-PBS



Basic Information

Catalog Number:

69002-1-PBS

Concentration:

1 mg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

HZ-1014

GenBank Accession Number:

GeneID (NCBI):

7124

ENSEMBL Gene ID:

ENSG00000232810

Full Name:

tumor necrosis factor (TNF superfamily, member 2)

Purification Method:

Protein G purification

CloneNo.:

11H8A5

Applications

Tested Applications:

Neutralization, ELISA

Species Specificity:

human, mouse

Background Information

TNF, as also known as TNF-alpha, or cachectin, is a multifunctional proinflammatory cytokine that belongs to the tumor necrosis factor (TNF) superfamily. It is expressed as a 26 kDa membrane bound protein and is then cleaved by TNF-alpha converting enzyme (TACE) to release the soluble 17 kDa monomer, which forms homotrimers in circulation. It is produced chiefly by activated macrophages, although it can be produced by many other cell types such as CD4+ lymphocytes, NK cells, neutrophils, mast cells, eosinophils, and neurons. It can bind to, and thus functions through its receptors TNFRSF1A/TNFR1 and TNFRSF1B/TNFR. This cytokine is involved in the regulation of a wide spectrum of biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. This cytokine has been implicated in a variety of diseases, including autoimmune diseases, INS resistance, and cancer.

This antibody can be used to neutralize the bioactivity of TNF alpha.

Storage

Storage:

Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS only, pH7.3

For technical support and original validation data for this product please contact:

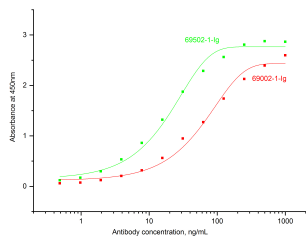
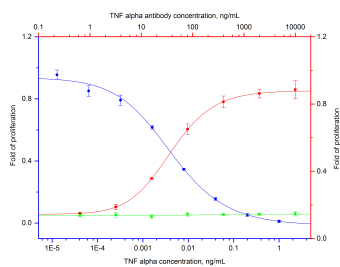
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Recombinant human TNF alpha (Cat.NO. HZ-1014) inhibits the growth of L-929 cell line in the presence of actinomycin D in a dose dependent manner (blue curve, refer to bottom X-left Y). The activity elicited by recombinant human TNF alpha (0.05 ng/mL HZ-1014) is neutralized by mouse anti-human TNF alpha monoclonal antibody 69002-1-Ig at serial dose (red curve, refer to top X-right Y). The ND50 is typically 10-50 ng/mL. The NeutraControl mouse anti-human TNF alpha



Indirect ELISA was carried out by coating recombinant Human TNF Alpha (Cat.NO. HZ-1014) at 70 ng/well followed by blocking and adding serial diluted TNF Alpha antibody 69002-1-Ig and 69502-1-Ig respectively. Signal was developed with TMB and stopped by H2SO4. Signal strength was measured by absorbance at 450 nm. This data was developed using the same antibody clone with 69002-1-PBS in a different storage buffer formulation.