

ANTIGENIX AMERICA Inc
1-800-558-1008
PRODUCT INFORMATION SUMMARY

ANTI-TNF ALPHA

Purified Antibody (Clone 8810) Product Number MC300320 0.2 mg
Purified Antibody (Clone 8820) Product Number MC300420 0.2 mg

SPECIFICITY:

Human tumor necrosis factor (TNF) alpha, a cytokine associated with the in vivo and in vitro killing of tumor cells and produced by macrophages, monocytes, and phytohemagglutinin-stimulated peripheral blood leukocytes. TNF alpha was originally isolated from culture supernatant of the human monocyte line HL60, was cloned and expressed in *Escherichia coli*, and characterized with respect to its cDNA and genomic sequences. Human TNF alpha is a 17 kilodalton polypeptide containing two cysteine residues linked by a disulfide bond and bears a 30% primary structural homology to TNF beta (lymphotoxin), a cytokine with a similar range of biological activities.

IMMUNOGLOBULIN CHAIN COMPOSITION: IgG1, kappa (Clones CH8810 and CH8820)

SOURCE: Murine ascites fluid.

CLONES:

Derived from hybridization of murine myeloma (SP2/0) cells with spleen cells from BALB/c mice immunized with recombinant human tumor necrosis factor.

PURIFICATION METHOD: Protein A affinity chromatography.

RESEARCH APPLICATIONS:

Functional neutralization of TNF alpha activity.
Biochemical identification by Western blot analysis of TNF alpha in body fluids and tissue culture medium.
Development of quantitative immunoassays, Immunoaffinity purification
Immunohistochemistry (Including **paraffin-embedded**).

CHARACTERIZATION:

Clones 8810 and 8820 have been shown to recognize different antigenic determinants of TNF Alpha molecule. Reactive with both recombinant and native TNF Alpha.
Clone 8820 is recommended for cyto-spin staining.

Immunohistology: Both clones have been observed to react in paraffin-embedded tissue at concentration 10 ug/mL. Tissues tested: Human Kidney (normal), Lung (normal), and Lung Cancer, Liver Cirrosis specimens.

CROSS-REACTIVITY: None observed with TNF Beta, IL 1, IL 2, IFNs, GM-CSF.

NEUTRALIZING ACTIVITY:

One microgram of purified monoclonal anti-TNF alpha, clones 8810 or 8820, can neutralize 2 - 5 nanograms of rTNF alpha.

HANDLING AND STORAGE:

Lyophilized, purified monoclonal antibody upon reconstitution with 0.2 ml of distilled water will be in a medium containing 0.01M phosphate-buffered saline, pH 7.4. These preparations should be diluted in a protein-containing or other stabilizing medium to a concentration suitable for use in specific protocols. Lyophilized reagents should be stored at -20° C until reconstitution. Product in a liquid state should be stored at 2-8° C when not in use. Purified anti-TNF alpha is provided free of stabilizing agents and preservatives to facilitate conjugation and immediate use in functional and immunological assays.

WARRANTY:

Products sold hereunder are warranted only to conform to the quantity and contents stated on the label at the time of delivery to the customer. There are no warranties, expressed or implied, which extend beyond the description on the label of the product.

RESEARCH USE ONLY - NOT INTENDED FOR THERAPEUTIC OR DIAGNOSTIC USE