

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TNF- α in ELISAs and Western blots. In sandwich ELISAs, less than 0.05% cross-reactivity with recombinant human TNF- β , recombinant mouse TNF- α , recombinant rat TNF- α , and recombinant porcine TNF- α is observed.
Source	Recombinant Monoclonal Mouse IgG ₁ Clone # 28401R
Purification	Protein A or G purified from cell culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human TNF- α Gly57-Leu233 Accession # P01375
Endotoxin Level	<0.10 EU per 1 μ g of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μ m filtered solution in PBS.

APPLICATIONS

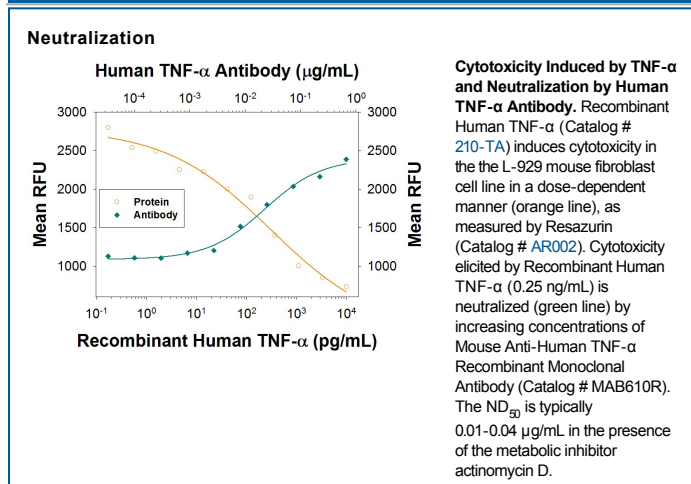
Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

Human TNF- α Sandwich Immunoassay

		Reagent
ELISA Capture	2-8 μ g/mL	Human TNF- α Antibody (Catalog # MAB610R)
ELISA Detection	0.1-0.4 μ g/mL	Human TNF- α Biotinylated Antibody (Catalog # BAF210)
Standard		Recombinant Human TNF- α (Catalog # 210-TA)

Neutralization Measured by its ability to neutralize TNF- α -induced cytotoxicity in the L-929 mouse fibroblast cell line. Matthews, N. and M.L. Neale (1987) in *Lymphokines and Interferons, A Practical Approach*. Clemens, M.J. *et al.* (eds): IRL Press. 221. The Neutralization Dose (ND₅₀) is typically 0.01-0.04 μ g/mL in the presence of actinomycin D and 0.25 ng/mL Recombinant Human TNF- α .

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

TNF- α , designated TNFSF2, is a trimeric glycoprotein active in both membrane bound and secreted forms. TNF- α is produced by several lymphoid cells as well as by astrocytes, endothelial cells, and smooth muscle cells. TNF- α binds to TNF RI and TNF RII present on virtually all cell types where it triggers the activation of multiple signal transduction pathways and modulates the expression of a wide variety of genes.