Human TNF-α Antibody

Monoclonal Mouse IgG_1 Clone # 1825

Catalog Number: MAB210

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TNF-α in direct ELISAs. In direct ELISAs, approximately 50% cross-reactivity with recombinant rhesus macaque TNF-α is observed and no cross-reactivity with recombinant cotton rat, mouse, rat, or porcine TNF-α is observed. It shows no cross-reactivity with recombinant human (rh) APRIL, rhBAFF, rhEDA-A2, rhFas Ligand, rhGITR Ligand, rhLIGHT, rhOX40 Ligand, rhRANK Ligand, rhTNF-β, rhTRAIL, rhTRANCE, rhTWEAK, or rhVEGI.
Source	Monoclonal Mouse IgG_1 Clone # 1825
Purification	Protein A or G purified from ascites
Immunogen	*E. coli*-derived recombinant human TNF-α Gly57-Leu233 Accession # P01375
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

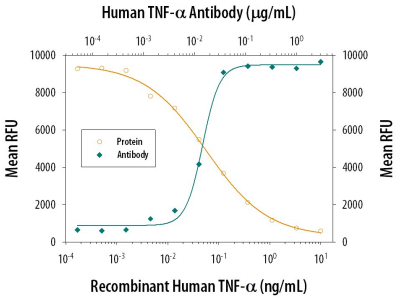
APPLICATIONS

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.*

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 (ND_{50}) is typically 0.01-0.06 µg/mL in the presence of 0.75 ng/mL Recombinant Human TNF−α and 1 µg/mL actinomycin D.

DATA

Neutralization



Cytotoxicity Induced by TNF-α and Neutralization by Human TNF-α Antibody. Recombinant Human TNF-α (Catalog # 210-TA) induces cytotoxicity in the the L-929 mouse fibroblast cell line in a dose-dependent manner (orange line). Cytotoxicity elicited by Recombinant Human TNF-α (0.75 ng/mL) is neutralized (green line) by increasing concentrations of Mouse Anti-Human TNF-α Monoclonal Antibody (Catalog # MAB210). The ND_{50} is typically 0.01-0.06 µg/mL in the presence of the metabolic inhibitor actinomycin D (1 µg/mL).

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.** ● 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.

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