

## Anti-Human TNF alpha Purified

Catalog Number: 14-7348

Also Known As: Tumor Necrosis Factor alpha, TNFa TNF-α

RUO: For Research Use Only

### Product Information

Contents: Anti-Human TNF alpha Purified


 Catalog Number: 14-7348

Clone: MAb1


Concentration: 0.5 mg/ml


Host/Isotype: Mouse IgG1, κ

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 Temperature Limitation: Store at 2-8°C.

 Batch Code: Refer to Vial

 Use By: Refer to Vial

 Caution, contains Azide

### Description

The MAb1 antibody reacts with human tumor necrosis factor-α (TNF-α), a 17 kDa cytokine produced by monocytes, macrophages, neutrophils, NK cells and CD4<sup>+</sup> T cells. TNF-α has cytolytic activity against a range of tumor cells and is important in immune regulation. TNF-α forms dimers and trimers and also exists as a 26 kDa membrane bound form.

### Applications Reported

MAb1 has been reported for use in capture of human TNF-α by ELISA. It can also be used for immunoblotting (WB) and for neutralizing TNF-α binding and biological activity (use Functional Grade purified cat.16-7348).

### Applications Tested

The MAb1 antibody has been tested as the capture antibody in a sandwich ELISA for analysis of human TNF-α (TNF-α) in combination with the biotin MAb11 (13-7349) antibody for detection and recombinant human TNFa (14-8329) as the standard. A suitable range of concentrations of this antibody for ELISA capture is 1-4 µg/ml. A standard curve consisting of doubling dilutions of the recombinant standard over the range of 1000 pg/ml - 8 pg/ml should be included in each ELISA plate.

### References

Danis, V. A., G. M. Franic, et al. (1991). "Effects of granulocyte-macrophage colony-stimulating factor (GM-CSF), IL-2, interferon-gamma (IFN-gamma), tumour necrosis factor-α (TNF-α) and IL-6 on the production of immunoreactive IL-1 and TNF-α by human monocytes." *Clin Exp Immunol* 85(1): 143-50.

Rathjen, D. A., K. Cowan, et al. (1991). "Antigenic structure of human tumour necrosis factor: recognition of distinct regions of TNF α by different tumour cell receptors." *Mol Immunol* 28(1-2): 79-86.

### Related Products

00-4202 ELISA Diluent Solution (5X)

00-4203 Super AquaBlue ELISA Substrate

13-7349 Anti-Human TNF alpha Biotin (MAb11)

14-8329 Human TNF alpha Recombinant Protein

18-4100 Avidin HRP

44-2404 Nunc MaxiSorp® flat-bottom 96 well plate

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