

Anti-Mouse/Rat TNF alpha Purified

Catalog Number: 14-7341

Also Known As: Tumor Necrosis Factor alpha

RUO: For Research Use Only

Product Information

Contents: Anti-Mouse/Rat TNF alpha Purified

 **Catalog Number:** 14-7341

Clone: Polyclonal

Concentration: 0.5 mg/mL

Host/Isotype: Rabbit IgG

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 affinity purified polyclonal rabbit antibody reacts with mouse and rat tumor necrosis factor-alpha. Mouse TNF alpha is a 17 kDa factor produced by macrophages, monocytes, neutrophils, CD4 T cells, and NK cells. A 26 kDa form is expressed as a membrane-bound molecule. TNF alpha is cytolytic and plays an important role in immune regulation. Bioactive TNF alpha exists as a homotrimer.

Applications Reported

The Affinity Purified anti-mouse/rat TNF- α anti-mouse TNF- α antibody has been reported for use as the plate-coating (ELISA Capture) antibody for the In Vivo Cytokine Capture Assay (IVCCA), in conjunction with the Functional Grade Biotinylated TN3.19 antibody for In Vivo Capture (ELISA Detection). The IVCCA facilitates measurement of cytokines in serum by increasing their in vivo half lives dramatically. This increases the sensitivity of measurement of in vivo cytokine production 30- to 1000- fold. For detailed methodology in this application, please refer to this reference: Finkelman, F., S. Morris, T. Orekhova, and D. Sehy. 2003. The In Vivo Cytokine Capture Assay for measurement of cytokine production in the mouse. In Current Protocols in Immunology. Unit 6.28. J. Coligan, A. Kruisbeek, D. Margulies, E. Shevach, and W. Strober, eds. John Wiley and Sons, New York.

Applications Tested

The Affinity Purified anti-mouse/rat TNF- α antibody has been tested as the plate coating ELISA capture antibody in a sandwich ELISA for analysis of mouse TNF- α , in combination with the Functional Grade Biotinylated anti-mouse TNF alpha antibody (14-8321) for ELISA detection and recombinant mouse TNF- α (14-8321) as the standard. A suitable range of concentrations of the Affinity Purified anti-mouse/rat TNF- α antibody for ELISA capture is 1.0 - 4.0 μ g/mL. A standard curve consisting of doubling dilutions of the recombinant standard over the range of 2000 pg/mL - 15.0 pg/mL should be included in each ELISA plate.

References

Finkelman, F., S. Morris, T. Orekhova, and D. Sehy. 2003. The In Vivo Cytokine Capture Assay for measurement of cytokine production in the mouse. In Current Protocols in Immunology. Unit 6.28. J. Coligan, A. Kruisbeek, D. Margulies, E. Shevach, and W. Strober, eds. John Wiley and Sons, New York.

Finkelman, F.D., and S.C. Morris. 1999. Development of an assay to measure in vivo cytokine production in the mouse. Int. Immunology. 11: 1811-1818.

Related Products

14-8321 Mouse TNF alpha Recombinant Protein

36-7423 Anti-Mouse/Rat TNF alpha Functional Grade Biotin (TN3-19)

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