

**Biotinylated Anti-Mouse  
Tumour Necrosis Factor-alpha (TNF- $\alpha$ )  
Monoclonal Rat antibody**

- Code:** 212-01-264A **Lot no.:**
- Isotype:** Rat IgG1 **Expiration:** 1 year from date of dispatch
- Clone:** MP6-XT22
- Quantity:** 200  $\mu$ g (0.2 ml) Biotinylated antibody in PBS pH 7.4 with 0.1% (w/v) sodium azide.
- Source:** Tissue culture supernatant. Recombinant mouse TNF- $\alpha$  expressed in *E. coli* was used as immunogen.
- Purification:** Protein G affinity chromatography. The antibody was conjugated with biotin under optimal conditions via reaction with NHS-biotin<sup>2</sup>. The solution is free of unconjugated biotin.
- Specificity:** This antibody recognizes mouse Tumour Necrosis Factor-  $\alpha$  (TNF- $\alpha$ ).
- Applications:** The biotin labelled form of clone MP6-XT22 can be used for ELISA (detection) in conjunction with purified antibody from clone MP6-XT3 (Code # 212-01-164B)<sup>1</sup>. This clone can also be used for Western blotting procedures, neutralisation<sup>1,3,4</sup>, for immunochemistry and intracellular staining.

We recommend that each laboratory determine an optimum working titre for use in its particular application.

- References:**
1. Abrams, J.S. et al. *Strategies of anti-cytokine monoclonal antibody development. Immunol. rev.* 127:5-24, 1992.
  2. Guesdon, J.L., Ternynck, T. and S. Avrameas. *The use of avidin - biotin interaction in immunoenzymatic techniques. J. Histochem. Cytochem.* 27: 1131-1139, 1979.
  3. Spaner, D., et al. (1998). *A role for perforin in activation-induced cell death. J. Immunol.* 160, 2655-2664.
  4. Hoffman, K.F., et al. (1998). *IFN-gamma, IL-12, and TNF-alpha are required to maintain reduced liver pathology in mice vaccinated with Schistosoma mansoni eggs and IL-12. J. Immunol.* 161, 4201-4210.

**Storage:** Store at +4°C in the dark. **DO NOT FREEZE.**

**For Research Use Only. Not For Diagnostic or Therapeutic Use.**

**Conditions:** The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. ImmunoKontakt will not be held responsible for patent infringement or other violations that may occur with the use of our products.

**Caution:** Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive compounds in plumbing.

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