

## Anti-Mouse IFN gamma Purified


Catalog Number: 14-7312

Also Known As: Interferon-gamma, IFN-g, IFNg

RUO: For Research Use Only

### Product Information

Contents: Anti-Mouse IFN gamma Purified


 Catalog Number: 14-7312

Clone: R4-6A2


Concentration: 0.5 mg/ml


Host/Isotype: Rat IgG1,  $\kappa$

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 R4-6A2 antibody reacts with mouse interferon- $\gamma$  (IFN- $\gamma$ ), a homodimeric 15-20 kDa cytokine secreted by Th1 cells. The R4-6A2 antibody is a neutralizing antibody. IFN- $\gamma$  is an ~20 kDa factor produced by activated T, B and NK cells and is an anti-viral and anti-parasitic cytokine. IFN- $\gamma$  in synergy with other cytokines, such as TNF- $\alpha$ , inhibits proliferation of normal and transformed cells. Immunomodulatory effects of IFN- $\gamma$  are exerted on a wide range of cell types expressing the high affinity receptors for IFN- $\gamma$ . Glycosylation of IFN- $\gamma$  does not affect its biological activity.

### Applications Reported

The R4-6A2 antibody has been reported for use in cytokine neutralization, and immunoblotting (WB). The purified R4-6A2 antibody can be used for blocking of fluorochrome conjugated R4-6A2 in intracellular flow cytometry experiments to serve as a specificity control. It has also been reported to neutralize IFN- $\gamma$  binding and biological activity. (Please use Functional Grade purified R4-6A2, cat. 16-7312, in functional assays.)

### Applications Tested

The purified R4-6A2 antibody has been tested as the capture antibody in a sandwich ELISA for analysis of mouse IFNg (Interferon-gamma, IFN-g) in combination with the biotinylated XMG1.2 (13-7311) antibody for detection and recombinant mouse IFNg (39-8311) as the standard. A suitable range of concentrations of this antibody for ELISA capture is 1-4  $\mu$ g/ml. A standard curve consisting of doubling dilutions of the recombinant standard over the range of 2000 pg/ml - 15 pg/ml should be included in each ELISA plate.

The Functional Grade purified R4-6A2 antibody has been tested for neutralization of mouse IFN- $\gamma$  bioactivity.

### References

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Kort JJ, Kawamura K, et al. 2006. Efficient presentation of myelin oligodendrocyte glycoprotein peptides but not protein by astrocytes from HLA-DR2 and HLA-DR4 transgenic mice. *J Neuroimmunol.* 173(1-2):23-34. (ELISPOT, PubMed)

### Related Products

13-7311 Anti-Mouse IFN gamma Biotin (XMG1.2)

14-8231 Mouse IL-23 Recombinant Protein

39-8311 Mouse IFN gamma Single-Use ELISA RSG Standard

88-7234 Mouse IL-23 ELISA Ready-SET-Go!®

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