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Anti-Mouse IFN alpha receptor I (IFNAR1) Functional Grade Purified

Catalog Number: 16-5945
Also Known As:IFNAR, IFNBR
RUO: For Research Use Only

Product Information

Contents: Anti-Mouse IFN alpha receptor I (IFNAR1) Functional Grade Purified
REF **Catalog Number:** 16-5945
Clone: MAR1-5A3
Concentration: 1 mg/ml
Host/Isotype: Mouse IgG1
Handling Conditions: Use in sterile environment.
Endotoxin Level: Less than 0.001 ng/ug antibody, as determined by the LAL assay.

Formulation: aqueous buffer, no sodium azide
Temperature Limitation: Store at 2-8°C.
LOT **Batch Code:** Refer to Vial
Use By: Refer to Vial

Description

The MAR1-5A3 monoclonal antibody reacts with mouse IFN-a/b receptor subunit 1 (IFNAR-1). The type I IFN receptor subunit 1 is co-expressed with IFNAR-2 on nearly all cells and make up the heterodimeric receptor complex that binds to all type I IFNs, IFN-a and IFN-ß. Type I IFNs are a group of structurally and functionally related proteins that demonstrate antiviral, antiparasitic, and antiproliferative activities.

Applications Reported

The MAR1-5A3 antibody has been reported for use in neutralization of IFNAR1 bioactivity.

Applications Tested

The Functional Grade Purified MAR1-5A3 antibody has been tested by LAL assay to verify low endotoxin levels, by bioassay for neutralization of mouse IFNAR-1bioactivity. The MAR1-5A3 antibody at 0.04 ug/ml has been found to inhibit by 50% the biological effects of 0.5 ng/ml mouse IFN-a2 (ND50), in an EMCV assay of L929 cell protection. Detailed information and protocols about cytokine bioassays and in vitro cytokine neutralization using antibodies can be found in BestPortocols

References

Shahangian A, Chow EK, Tian X, Kang JR, Ghaffari A, Liu SY, Belperio JA, Cheng G, Deng JC. J Clin Invest. 2009 Jul;119(7):1910-20. (MAR1-5A3, in vivo)

A critical role for type I IFN in arthritis development following Borrelia burgdorferi infection of mice. Miller JC, Ma Y, Bian J, Sheehan KC, Zachary JF, Weis JH, Schreiber RD, Weis JJ. J Immunol. 2008 Dec 15;181(12):8492-503.

K. C. Lai, et al. (2006) Blocking Monoclonal Antibodies Specific for Mouse IFN-a/b Receptor Subunit 1 (IFNAR-1) from Mice Immunized by In Vivo Hydrodynamic Transfection. J. Interferon and Cytokine Research. 26: 804-819

Related Products

16-4714 Mouse IgG1 K Isotype Control Functional Grade Purified

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