

MOUSE MONOCLONAL ANTIBODY AGAINST HUMAN INTERFERON BETA (MMHB-3)

Product Number: **21400-1**

Lot Number:

Size: **50 ug**

Description: Mouse Anti-Human Interferon Beta

Clone: MMHB-3

Volume: ml

Concentration: mg/ml

Buffer: phosphate buffered saline (PBS) containing 0.1% bovine serum albumin (BSA)

Antigen: human interferon beta

Isotype: IgG₁ κ

Bioactivity: Binds to human interferon beta with high affinity. For best results in experiments involving neutralization of the anti-viral effect of human interferon beta we recommend using Sheep Polyclonal Antibody to human interferon beta (Product 31400-1).

Assay Used to Measure Bioactivity: One neutralization unit is the amount of antiserum required to neutralize one unit of human interferon beta (Hu-IFN-β) to a 50% endpoint. Interferon was titrated with the use of the cytopathic effect inhibition assay as described [Rubinstein, S., Familletti, P.C., and Pestka, S. [1981] "Convenient Assay for Interferons," *J. Virol.* **37**, 755-758; Familletti, P.C., Rubinstein, S., and Pestka, S. [1981] "A Convenient and Rapid Cytopathic Effect Inhibition Assay for Interferon," in *Methods in Enzymology*, Vol. 78 [S. Pestka, ed.], Academic Press, New York, 387-394]. In this antiviral assay for interferon about 1 unit/ml of interferon is the quantity necessary to produce a cytopathic effect of 50%. The units are determined with respect to the international reference standard for Hu-IFN-β provided by the National Institutes of Health [see Pestka, S. [1986] "Interferon Standards and General Abbreviations," in *Methods in Enzymology* [S. Pestka, ed.], Academic Press, New York **119**, 14-23].

Due to the variation in ND₅₀ (Neutralizing Dose) values based on the cell type and assay system, we recommend each user determine the neutralizing concentration of this antibody lot in their assay system. Using an A549/EMCV (cell/virus) system, we have not verified with reasonable consistency the neutralizing concentration of this antibody [the concentration required to inhibit the antiviral effect of human interferon beta by one half].

Special Conditions/Comments: After receipt, the product may be stored at -20°C for short-term use (≤6 months). For long-term storage, we recommend storing the product at -70°C or below for retention of full activity. When thawing, the contents of the tube should be apportioned in separate tubes so that freezing and thawing is kept to a minimum.

Tested Application: Direct Binding ELISA

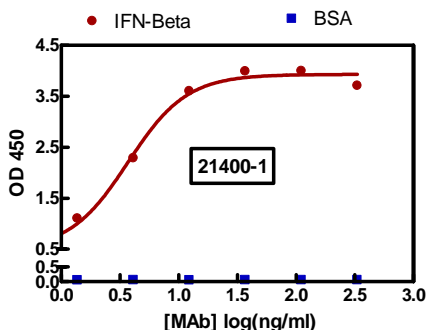


Figure 1: Representative binding curve of antibody to mammalian expressed human interferon beta 1a (circle) and to 1% BSA/PBS (square) in a Direct Binding ELISA. High-binding polystyrene plates were coated with either 1 µg/ml human interferon beta 1a or 1%BSA/PBS. Thereafter, titrations of the product were added to the wells. Donkey anti-mouse IgG conjugated to HRP was used as the detection antibody. Colorimetric detection was performed using 3, 3', 5, 5'-Tetramethylbenzidine (TMB) substrate. The HRP-TMB reaction was stopped using a diluted H₂SO₄/HCL solution.



Note: PBL has not tested the use of this product in western blot, flow cytometry, immunoprecipitation and immunohistochemistry

Shipping Conditions: Dry ice

Physical State of Product During Shipping: Frozen

Authorization

Released by: _____

Date:

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