



promising results

GTCTCTTACC CCGATGTTCA ACCAAAAG ACTTACTACC TTTATTTTAT GTTTACTTTT TATAGATTGT CTTTTTATC  
TCGCTACTGC CGTGCACACAA ACACATAAA AAAAACTGA AATACTACTA CATCAAAACG CATATTCCCT AGAAAAAAA

## MOUSE MONOCLONAL ANTIBODY AGAINST HUMAN INTERFERON ALPHA (MMHA-2)

Product Number: **21100-2**

Lot Number:

Size: **500 µg**

**Description:** Mouse Anti-Human Interferon Alpha, neutralizing

**Clone:** MMHA-2

**Contents:** 500 µg/vial

**Volume:** 0.1 ml

**Concentration:** 5.0 mg/ml

**Buffer:** 50mM Sodium Citrate; 50mM Sodium Phosphate pH7.0

**Endotoxin:** < 1 EU/µg

**Antigen:** Human leukocyte interferon

**Isotype:** Mouse IgG<sub>1</sub> kappa

**Purity:** > 95%

**Purification Method:** A combination of ion exchange, hydrophobic interaction and size exclusion chromatography.

**Specificity:** Neutralizes human interferon alpha; binds to human interferon alpha with high affinity ( $K_A \approx 10^9 \text{ M}^{-1}$ )

**Assay Used to Measure Bioactivity:** One neutralization unit is the amount of antiserum required to neutralize one unit of human interferon alpha [Hu-IFN- $\alpha$ ] 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- $\alpha$  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]. This material is prepared specifically for effective neutralization of Hu-IFN- $\alpha$ .

**Tested Applications:** ELISA, Neutralization and Western blot

*Optimal dilutions should be determined by each laboratory for each application*

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**Shipping Conditions:** Dry ice

**Physical State of Product During Shipping:** Frozen

**Special Conditions/Comments:** After receipt, this product should be kept at -70 °C or below for retention of full activity. Thaw product vial by incubation in cold tap water until just thawed - the contents of the tube should be apportioned in separate tubes so that freezing and thawing is kept to a minimum. Refreezing should be done on dry ice or in a dry ice/alcohol bath. Further dilution of the product should be in buffers containing protein such as 0.1% bovine serum albumin (BSA). For more information on protein handling visit the PBL website at [www.interferonsource.com](http://www.interferonsource.com).

For further product information visit [www.interferonsource.com](http://www.interferonsource.com)

**Authorization**

Released by: \_\_\_\_\_

Date:

**This Product is for RESEARCH USE ONLY and is not for sale or use in any *commercial* kit.  
NOT FOR DIAGNOSTIC OR THERAPEUTIC USE, OR USE IN HUMANS.**