



Mouse (monoclonal) Anti-Human Interferon- α A

PRODUCT ANALYSIS SHEET

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| Catalog Number: | AHC4114B |
| Lot Number: | See product label |
| Clone Number: | MMHA-2 |
| Quantity/Volume: | 500 μ g/100 μ L |
| Formulation: | Purified antibody in phosphate buffered saline with 0.1% BSA |
| Isotype: | IgG1 kappa |
| Biological Activity: | This monoclonal antibody neutralizes human Interferon- α . Binds with high affinity ($K_A \sim 10^9 M^{-1}$). |
| Assay Used to Measure Biological Activity: | Human interferon alpha (Hu-IFN- α A) was reacted with the antibody, and residual activity was determined by the cytopathic effect inhibition assay as described by Rubinstein, et al. (1981) and Familletti (1981). In this antiviral assay for interferon, approximately 1 unit/mL of interferon is the quantity necessary to produce a 50% cytopathic effect. The units are determined with respect to the international reference standard for human interferon alpha A (Hu-IFN- α A) provided by the National Institutes of Health. Binding affinity was determined by the method of Scatchard. |
| Specificity: | Binds well with IFN- α A, IFN- α 2, IFN- α A/D, IFN- α D, IFN- α G, IFN- α 4b. Binds moderately well to IFN- α C, IFN- α J, IFN- α K. Does not bind with IFN- α B2, IFN- α F, IFN- α H, IFN- α I, IFN- α WA, IFN- ω , IFN- β or IFN- γ . |
| Applications: | Neutralization studies, Western blotting, ELISA, immunohistochemistry, and immunoprecipitation. |
| Storage: | Store at $\leq -20^\circ\text{C}$. Upon initial thawing, apportion into working aliquots and store at $\leq -20^\circ\text{C}$. Avoid repeated freeze/thaw cycles. |

This product is for research use only. Not for use in diagnostic procedures.

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References:

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Pestka, S. (1986) Interferon Standards and General Abbreviations. *Meth. Enzymol.* 119:14-23.

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Subauste, C. S., R. de Waal Malefyt, and F. Fuh (1998) Role of CD80 (B7.1) and CD86 (B7.2) in the immune response to an intracellular pathogen. *J. Immunol.* 160(4):1831-1840.

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