

**MONOCLONAL ANTIBODY TO
MOUSE ALPHA INTERFERON (IFN-alpha)
Clone F18**



Catalog nr	HM1001-AF (lot number and expiry date are indicated on the label)						
Description	<p>This monoclonal antibody binds and neutralizes both natural and recombinant mouse alpha Interferon. It may be used for biological assays as well as for purification. The antibody reacts with most isoforms of natural or recombinant mouse alpha Interferons. It does not cross react with mouse Interferons beta or gamma, nor with human Interferons. With the availability of monoclonal antibodies directed against alpha Interferon, it is possible to interpret results obtained from crude materials containing both alpha and beta Interferon. The difficulties in studying in vitro and in vivo effects of "type 1" Interferons arise from the fact that both alpha and beta Interferons are produced in response to the same stimuli and also seem to act via the same receptor. These Interferon activities can only be distinguished from one another by use of specific neutralizing antibodies.</p>						
Species	Rat IgG ₁						
Formulation	1 ml (200 µg/ml) 0.2 µm filtered antibody solution in PBS, containing 0.1% bovine serum albumin.						
Application	<p>The antibody can be used for inhibition in biological assays and for affinity purification. One neutralizing unit of anti-mouse alpha interferon is defined as the amount of antibody sufficient for neutralizing one unit mouse alpha interferon (ref.: NIH standard Ga02-901- 511).</p> <p>Furthermore the antibody is useful for immunoassays, flow cytometry and immunoprecipitation.</p>						
Use	For flow cytometry dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:10. Before use in biological assays, the product must be filter sterilized. For neutralisation of biological activity dilutions have to be made according to the amount of Interferon to be inactivated.						
Storage and stability	Product should be stored at 4°C. Under recommended storage conditions, product is stable for one year.						
Precautions	For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and Federal rules in the use of this product. Hbt is not responsible for any patent infringements that might result with the use of or derivation of this product.						
References	<ol style="list-style-type: none">1. Armstrong, JA et al; Semi-micro, dye-binding assay for rabbit interferon. <i>J Appl Microbiol</i> 1971, <i>21</i>: 7232. van Tiel, FH et al; Detection of Semliki Forest virus in cell culture by use of an enzyme immunoassay with peroxidase-labeled monoclonal antibodies specific for glycoproteins E1 and E2. <i>J Clin Microbiol</i> 1984, <i>20</i>: 387						
Also available	<table><tr><td>HM1001</td><td>Monoclonal antibody against Mouse IFN-alpha, clone F18</td></tr><tr><td>HC1040a</td><td>Recombinant Mouse IFN-alpha (CHO-derived), 10⁵ units</td></tr><tr><td>HC1040b</td><td>Recombinant Mouse IFN-alpha (CHO-derived), 10⁶ units</td></tr></table>	HM1001	Monoclonal antibody against Mouse IFN-alpha, clone F18	HC1040a	Recombinant Mouse IFN-alpha (CHO-derived), 10 ⁵ units	HC1040b	Recombinant Mouse IFN-alpha (CHO-derived), 10 ⁶ units
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