

DESCRIPTION

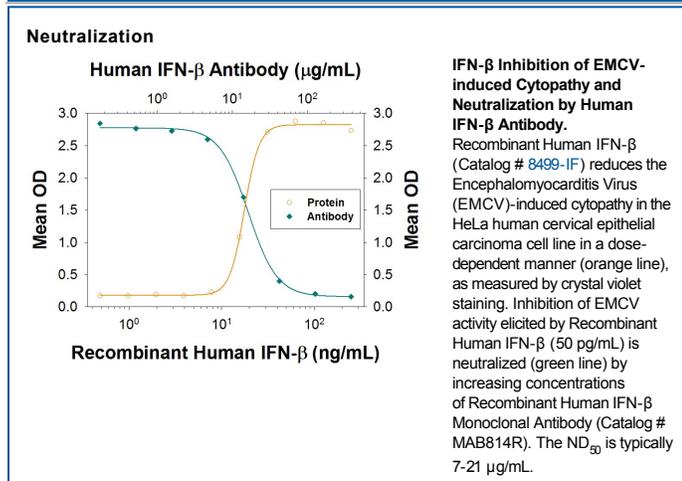
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| Species Reactivity | Human |
| Specificity | Detects human IFN- β in direct ELISAs. |
| Source | Recombinant Monoclonal Mouse IgG ₁ Clone # 76703R |
| Purification | Protein A or G purified from cell culture supernatant |
| Immunogen | <i>E. coli</i> -derived recombinant human IFN- β Met22-Asn187 Accession # P01574 |
| Endotoxin Level | <0.10 EU per 1 μ g of the antibody by the LAL method. |
| Formulation | Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μ m filtered solution in PBS. |

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

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| Neutralization | Measured by its ability to neutralize IFN- β inhibition of EMCV-induced cytopathy in the HeLa human cervical epithelial carcinoma cell line. Meager, A. (1987) in <i>Lymphokines and Interferons, a Practical Approach</i> . Clemens, M.J. <i>et al.</i> (eds): IRL Press. 129. The Neutralization Dose (ND ₅₀) is typically 7-21 μ g/mL in the presence of 50 pg/mL Recombinant Human IFN- β . |
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DATA



PREPARATION AND STORAGE

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| Reconstitution | Reconstitute at 0.5 mg/mL in sterile PBS. |
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

BACKGROUND

Interferon beta (IFN- β) is synthesized and secreted by fibroblasts and many other cell types in response to pathogens. IFN- β binding to type I interferon receptors induces the upregulation of IRF-7 and activation of Rnase L. IRF-7 can exert a positive feedback on IFN- β production. RNase L cleaves both viral and cellular single stranded mRNA, thereby limiting viral replication and dissemination.