

DESCRIPTION

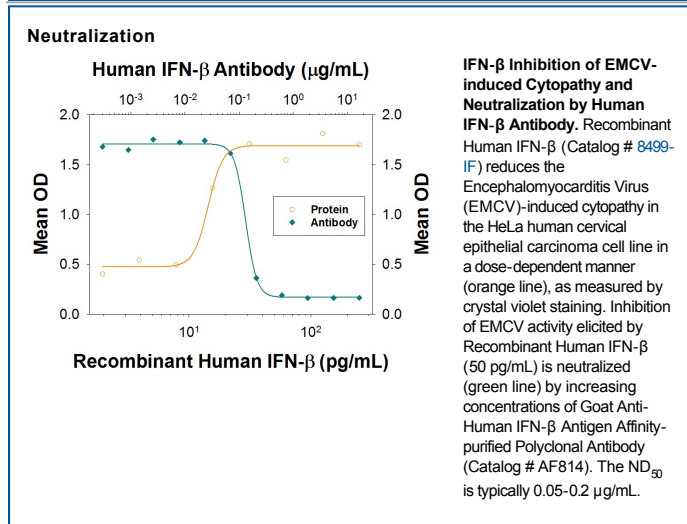
Species Reactivity	Human
Specificity	Detects human IFN- β in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant mouse IFN- β 1, recombinant human (rh) IFN- α 2, rhIFN- γ , recombinant cotton rat (rcr) IFN- α and rcrIFN- γ is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human IFN- β
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.

	Recommended Concentration	Sample
Western Blot	0.1 μ g/mL	Recombinant Human IFN- β
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 0.05-0.2 μ g/mL in the presence of 50 pg/mL Recombinant Human IFN- β .	

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 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

IFN- β (interferon beta; also fibroblast IFN) is a secreted, monomeric 23-24 kDa member of the alpha/beta interferon family of molecules. It can be produced by almost all cell types in response to bacterial DNA or viral double-stranded RNA and is abundantly secreted by circulating plasmacytoid DCs. IFN- β drives monocytic transformation into DCs, and it appears to stimulate a B cell switch from from IgM to IgG secretion. Mature human IFN- β is 166 amino acids (aa) in length (aa 22-187) and contains one phosphorylation site at Ser140. There is one potential alternative start site at Met22. Full-length human IFN- β (aa 22-187) shares 47% aa identity with mouse IFN- β .

PRODUCT SPECIFIC NOTICES

Sold under license from Pestka Biomedical Laboratories, Inc. d/b/a PBL Interferon Source. For research use only. Not for resale. Not for diagnostic, therapeutic or clinical purposes.