Human IFN-β Antibody

Monoclonal Mouse IgG_1 Clone # 1020369

Catalog Number: MAB11127

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human INFB in direct ELISAs
Source	Monoclonal Mouse IgG_1 Clone # 1020369
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	CHO-expressed recombinant Human IFN-beta protein Met22-Asn187 Accession # P01574
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.

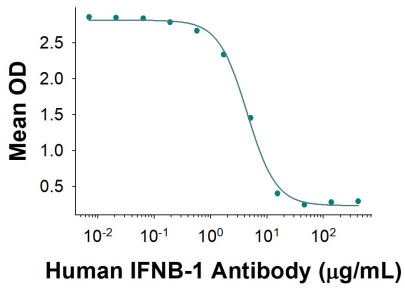
APPLICATIONS

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.*

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 Lymphokines and Interferons, a Practical Approach. Clemens, M.J. *et al.* (eds): IRL Press. 129. The Neutralization Dose (ND_{50}) is typically 2-20 µg/mL in the presence of 50 pg/mL Recombinant Human IFN-β.

DATA

Neutralization



Neutralization of IFN β Anti-Viral Activity by Human IFN β Antibody Recombinant Human IFN β (8499-IF) exhibits anti-viral activity in HeLa human cervical epithelial carcinoma cells infected with encephalomyocarditis (EMC). Inhibition of anti-viral activity elicited by Recombinant Human IFN β (50 pg/mL) is neutralized by Human IFN β Antibody (Catalog # MAB11127). The ND_{50} for this effect is typically 2.00-20.0 µg/mL.

PREPARATION AND STORAGE

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.
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 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.

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