

Human IFN-β Antibody

Recombinant Monoclonal Rabbit IgG Clone # 2036A Catalog Number: MAB8142

| DESCRIPTION | | |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Species Reactivity | Human | |
| Specificity | Detects human IFN-β in direct ELISAs. | |
| Source | Recombinant Monoclonal Rabbit IgG Clone # 2036A | |
| Purification | Protein A or G purified from cell culture supernatant | |
| Immunogen | Chinese hamster ovary cell line CHO-derived recombinant human IFN-β Met1-Asn187 Accession # P01574 | |
| Formulation | Lyophilized from a 0.2 µm 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 µm filtered solution in PBS. | |

| AFFLICATIONS | | | |
|----------------------|-------------------------------------------------------|----|--|
| Please Note: Optimal | I dilutions should be determined by each laboratory f | oı | |

for each application. General Protocols are available in the Technical Information section on our website.

| | Recommended Concentration | Sample |
|---------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flow Cytometry | 0.25 μL/10 ⁶ cells | M1 macrophages treated with 50 ng/mL each of rhGM-CSF (Catalog # 215-GM) for 6 days followed by an overnight polarization with IFNg and LPS (Catalog # 285-IF) and restimulated with monensin for 3 hours (3uM) |
| Immunocytochemistry | 1-25 μg/mL | See Below |

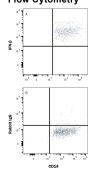
DATA

Immunocytochemistry



IFN-β in A549 Human Cell Line. IFN-ß was detected in immersion fixed A549 human lung carcinoma cell line using Rabbit Anti-Human IFN-ß Monoclonal Antibody (Catalog # MAB8142) at 1 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rabbit IgG Secondary Antibody (red; Catalog # NL004) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

Flow Cytometry



Detection of IFN-β in M1 macrophages by Flow Cytometry. M1 macrophages treated with 50 ng/mL each of rhGM-CSF (215-GM) for 6 days followed by an overnight polarization with IFNg and LPS (285-IF) and restimulated with monensin for 3 hours (3uM) were stained with Mouse Anti-Human CD14 PE-conjugated Monoclonal Antibody (Catalog # FAB3832P) and either (A) Rabbit Anti-Human IFN-β Monoclonal Antibody (Catalog # MAB8142) or (B) Normal Rabbit IgG Control (Catalog # MAB1050) followed by Allophycocyanin-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # F0111). View our protocol for Staining Intracellular Molecules

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.

*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.

- 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

Rev. 11/15/2022 Page 1 of 2



Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956 Europe | Middle East | Africa TEL +44 (0)1235 529449



Human IFN-β Antibody

Recombinant Monoclonal Rabbit IgG Clone # 2036A Catalog Number: MAB8142

PRODUCT SPECIFIC NOTICES

*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to SDS for additional information and handling instructions.

Rev. 11/15/2022 Page 2 of 2

