

ADDITIONAL INFORMATION

Related Product Information for IFNB1 elisa kit

Introduction: Interferons (IFNs) are natural cell-signaling proteins produced by the cells of the immune system of most vertebrates in response to challenges such as viruses, parasites and tumor cells. Interferons belong to the large class of glycoproteins known as cytokines. Interferons are produced by a wide variety of cells in response to the presence of double-stranded RNA, a key indicator of viral infection. Interferons assist the immune response by inhibiting viral replication within host cells, activating natural killer cells and macrophages, increasing antigen presentation to lymphocytes, and inducing the resistance of host cells to viral infection. There are three major classes of interferons that have been described for humans according to the type of receptor through which they signal: type I, II and III IFNs. The IFN- β proteins are produced by fibroblast. They have antiviral activity which mainly involved in innate immune response. Two types of IFN- β have been described, IFN- β 1 (IFNB1) and IFN- β 3 (IFNB3).

Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to IFN- β . Standards or samples are then added to the appropriate microtiter plate wells with a biotin conjugated antibody preparation specific for IFN- β and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5,5' tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain IFN- β , biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm $\pm$ 2 nm. The concentration of IFN- β in the samples is then determined by comparing the O.D. of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	9506801
NCBI GeneID	24481
NCBI Accession #	NP_062000.1
NCBI GenBank Nucleotide #	NM_019127.1
UniProt Accession #	P70499
Molecular Weight	22,073 Da
NCBI Official Full Name	interferon beta
NCBI Official Synonym Full Names	interferon beta 1, fibroblast
NCBI Official Symbol	Ifnb1
NCBI Official Synonym Symbols	Ifnb
NCBI Protein Information	interferon beta; IFN-beta; interferon, beta 1
UniProt Protein Name	Interferon beta
UniProt Gene Name	Ifnb1
UniProt Synonym Gene Names	Ifnb; IFN-beta
UniProt Entry Name	IFNB_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/ifnb1-rat-elisa-kits/interferon-beta-1-fibroblast/80245>