

Mouse Interferon Beta (IFN β) ELISA Kit | IFN β elisa kit

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CATALOG #
AAA22917

REACTIVITY
Mouse

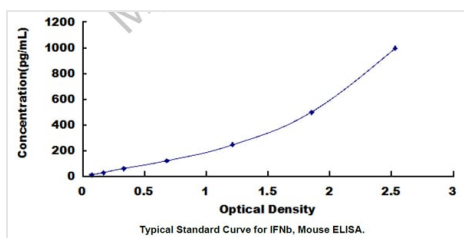
PRODUCT SYNONYMS

Interferon Beta (IFN β); Mouse Interferon Beta (IFN β) ELISA Kit; IFNB1; IFN-B; IFB; IFF; IFNB; Interferon Beta 1 Fibroblast; IFN β elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of IFN β . No significant cross-reactivity or interference between IFN β and analogues was observed.
Sequence Length	187
Assay Type	Quantitative Sandwich
Samples	Mouse serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	15.6-1,000pg/mL
Sensitivity	< 5.7pg/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level IFN β were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level IFN β were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IFNb elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to IFNb. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to IFNb. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain IFNb, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of IFNb in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of IFNb in mouse serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
References	Activation of GPR183 by 7 ? ,25-Dihydroxycholesterol Induces Behavioral Hypersensitivity through Mitogen-Activated Protein Kinase and Nuclear Factor- ? B; J Pharmacol Exp Ther; 2022 Nov;383(2):172-181.; PMID: 36116795; Kathryn Braden; Department of Pharmacology and Physiology, Saint Louis University School of Medicine, Saint Louis, Missouri (K.B., Y.L., Z.C., T.M.D., L.A.G., J.Z., C.K.A., D.S.); Henry and Amelia Nasrallah Center for Neuroscience, Saint Louis University, Saint Louis, Missouri (K.B., Y.L., Z.C., T.M.D., L.A.G., J.Z., C.K.A.,D.S.); Department of Clinical and Experimental Medicine and Pharmacology, University of Messina, Messina, Italy (M.C., E.E., S.C.); and Department of Chemistry, Saint Louis University, Saint Louis, Missouri (C.K.A.).

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504603
NCBI GeneID	3456
NCBI Accession #	NP_002167.1
NCBI GenBank Nucleotide #	NM_002176.3
UniProt Accession #	P01574 ; Q5VWC9
Molecular Weight	22,294 Da
NCBI Official Full Name	interferon beta
NCBI Official Synonym Full Names	interferon beta 1
NCBI Official Symbol	IFNB1
NCBI Official Synonym Symbols	IFB; IFF; IFNB; IFN-beta
NCBI Protein Information	interferon beta
UniProt Protein Name	Interferon beta
UniProt Gene Name	IFNB1
UniProt Synonym Gene Names	IFB; IFNB; IFN-beta

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.