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Datasheet for ABIN411282 Interferon gamma ELISA Kit

1 Image

16 Publications



Overview

Quantity:	96 tests
Target:	Interferon gamma (IFNG)
Binding Specificity:	AA 24-166
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	15.6-1000 pg/mL
Minimum Detection Limit:	15.6 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human IFN gamma
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: E.coli Immunogen sequence: Q24-Q166
Specificity:	Expression system for standard: E.coli Immunogen sequence: Q24-Q166
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

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Product Details

Sensitivity:	<2pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette
	tips. Multichannel pipettes are recommended in the condition of large amount of samples in the
	detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation
	of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl

Target Details

Target:	Interferon gamma (IFNG)
Alternative Name:	IFNG (IFNG Products)
Background:	Protein Function: Produced by lymphocytes activated by specific antigens or mitogens. IFN-
	gamma, in addition to having antiviral activity, has important immunoregulatory functions. It is
	a potent activator of macrophages, it has antiproliferative effects on transformed cells and it
	can potentiate the antiviral and antitumor effects of the type I interferons.
	Background: Interferon-gamma(IFN-gamma) is an inflammatory cytokine that has been
	implicated in the development of fibrosis in inflamed tissues. The production of IFN-gamma,
	which is under genetic control, can influence the development of fibrosis in lung allografts. IFN
	gamma is also produced by natural killer(NK) cells and most prominently by CD8 cytotoxic T
	cells, and is vital for the control of microbial pathogens. Interferon gamma is believed to be
	crucial for host defence against many infections. Genetically determined variability in IFN-
	gamma and expression might be important for the development of tuberculosis. IFN-gamma
	activates human macrophage oxidative metabolism and antimicrobial activity. In addition to
	having antiviral activity, IFN-gamma has important immunoregulatory functions. IFN-gamma
	plays an important role in the control of neointima proliferation.
	Synonyms: Interferon gamma,IFN-gamma,Immune interferon,IFNG,
	Full Gene Name: Interferon gamma
	Cellular Localisation: Secreted.
Gene ID:	3458
UniProt:	P01579
Pathways:	Interferon-gamma Pathway, Cellular Response to Molecule of Bacterial Origin, Regulation of
	Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, Production of
	Molecular Mediator of Immune Response, ER-Nucleus Signaling, Regulation of Carbohydrate
	Metabolic Process, Protein targeting to Nucleus, Autophagy

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Application Details	
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Comment:	Sequence similarities: Belongs to the type II (or gamma) interferon family. Tissue Specificity: Released primarily from activated T lymphocytes.
Plate:	Pre-coated
Protocol:	human IFN gamma ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for IFN gamma has been precoated onto 96-well plates. Standards(E.coli, Q24-Q166) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for IFN gamma is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human IFN gamma amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL, 15.6pg/mL human IFN gamma standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates or serum to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human IFN gamma standard solution and each sample be measured in duplicate.
Assay Precision:	 Sample 1: n=16, Mean(pg/ml): 98.5, Standard deviation: 5.32, CV(%): 5.4 Sample 2: n=16, Mean(pg/ml): 264, Standard deviation: 9.24, CV(%): 3.5 Sample 3: n=16, Mean(pg/ml): 579, Standard deviation: 22.00, CV(%): 3.8, Sample 1: n=24, Mean(pg/ml): 107, Standard deviation: 8.667, CV(%): 8.1 Sample 2: n=24, Mean(pg/ml): 315, Standard deviation: 20.79, CV(%): 6.6 Sample 3: n=24, Mean(pg/ml): 589, Standard deviation: 31.81, CV(%): 5.4
Restrictions:	For Research Use only
Handling	
Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months

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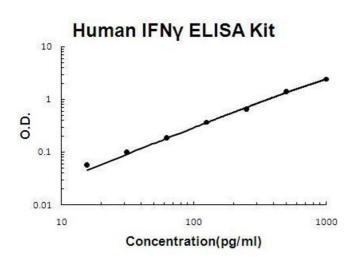
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There are more publications referencing this product on: Product page

Validation report #101868 for ELISA (ELISA)



ELISA
Image 1. Human IFN gamma PicoKine ELISA Kit standard
curve

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