Elabscience®

Porcine IFN-γ Antibody Pair Set

Catalog No.	E-KAB-0621	Applications	ELISA
Synonyms	IFG;IFI;IFNG;Type II Interferon		

Kit components & Storage

Title	Specifications	Storage
Porcine IFN-γ Capture Antibody	1 vial, 100 µ g	Store at -20° C for one year.
		Avoid freeze/thaw cycles.
Porcine IFN-γ Detection Antibody	1 vial, 50 μL	Store at -20° C for one year.
(Biotin)		Avoid freeze/thaw cycles.

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0621)	
		Porcine IFN-γ Capture Antibody	Porcine IFN-γ Detection Antibody (Biotin)
Immunogen	Immunogen	Recombinant Porcine IFN-y protien	Recombinant Porcine IFN-γ protien
Information	Swissprot	P17803	
Product details	Reactivity	Porcine	Porcine
	Host	Goat	Goat
	Conjugation	Unconjugated	Biotin
	Concentration	0.5 mg/mL	/
	Buffer	PBS with 0.04% Proclin 300; 50%	PBS with 0.04% Proclin 300; 1%
		glycerol; pH 7.5	protective protein; 50% glycerol; pH
			7.5
	Purify	Antigen Affinity	Antigen Affinity
	Specificity	Detects Porcine IFN-y in ELISAs.	

For Research Use Only

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Applications

Porcine IFN-γ Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images
ELISA	0.5-4 µg/mL	Porcine IFN-γ Capture	10 3
Capture		Antibody	Alar Alar Alar Alar Alar Alar Alar Alar
ELISA	1:1000-1:10000	Porcine IFN-γ Detection	Optical Density
Detection		Antibody (Biotin)	
			0.01 100 1000 1 10 100 1000 Porcine IFN-γ Concentration (pg/mL)

Note: This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

Background

Type II interferon produced by immune cells such as T-cells and NK cells that plays crucial roles in antimicrobial , antiviral , and antitumor responses by activating effector immune cells and enhancing antigen presentation. Primarily signals through the JAK-STAT pathway after interaction with its receptor IFNGR1 to affect gene regulation. Upon IFNG binding , IFNGR1 intracellular domain opens out to allow association of downstream signaling components JAK2 , JAK1 and STAT1 , leading to STAT1 activation , nuclear translocation and transcription of IFNG-regulated genes. Many of the induced genes are transcription factors such as IRF1 that are able to further drive regulation of a next wave of transcription. Plays a role in class I antigen presentation pathway by inducing a replacement of catalytic proteasome subunits with immunoproteasome subunits. In turn , increases the quantity , quality , and repertoire of peptides for class I MHC loading. Increases the efficiency of peptide generation also by inducing the expression of activator PA28 that associates with the proteasome and alters its proteolytic cleavage preference. Up-regulates as well MHC II complexes on the cell surface by promoting expression of several key molecules such as cathepsins B/CTSB , H/CTSH , and L/CTSL.Participates in the regulation of hematopoietic stem cells during development and under homeostatic conditions by affecting their development , quiescence , and differentiation.