

Datasheet for ABIN1043777

anti-Interferon gamma antibody



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Overview

Quantity:	100 µg
Target:	Interferon gamma (IFNG)
Reactivity:	Cow
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Interferon Gamma Antibody
Immunogen:	Immunogen: This protein A purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a recombinant protein raised in yeast corresponding to the 143 amino acids of the mature Bovine IFN Gamma protein. Immunogen Type: Recombinant Protein
Isotype:	IgG
Cross-Reactivity (Details):	This antibody is specific for bovine IFN gamma protein.
Characteristics:	Synonyms: rabbit anti-IFN gamma, rabbit anti-Interferon gamma, IFNG, BoIFNG
Purification:	This product was protein A purified from monospecific antiserum by chromatography.

Target Details

Target:	Interferon gamma (IFNG)
Alternative Name:	IFN gamma (IFNG Products)

Target Details

Background:	Background: Interferon-gamma (IFN-gamma) is a dimerized soluble cytokine that is the only member of the type II class interferon. This interferon was originally called macrophage-activating factor, a term now used to describe a larger family of proteins to which IFN-gamma belongs. IFN-gamma, or type II interferon, is a cytokine that is critical for innate and adaptive immunity against viral and intracellular bacterial infections and for tumor control. Aberrant IFN-gamma expression is associated with a number of autoinflammatory and autoimmune diseases. The importance of IFN-gamma in the immune system stems in part from its ability to inhibit viral replication directly, but, most important, derives from its immunostimulatory and immunomodulatory effects. IFN-gamma is produced predominantly by natural killer (NK) and natural killer T (NKT) cells as part of the innate immune response, and by CD4 and CD8 cytotoxic T lymphocyte (CTL) effector T cells once antigen-specific immunity develops.
Gene ID:	281237
NCBI Accession:	NP_776511
UniProt:	A9QXB7
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

Application Details

Application Notes:	Application Note: This protein A purified IFN-gamma antibody has been tested by ELISA and Western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 16.9 kDa in size corresponding to bovine IFN gamma by western blotting in the appropriate cell lysate or extract. Western Blot Dilution: 1:500-1:2,000 ELISA Dilution: 1:20,000 Other: User Optimized
Restrictions:	For Research Use only

Handling

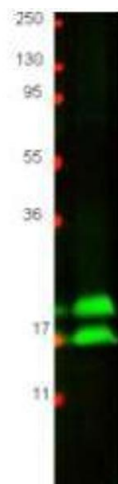
Format:	Lyophilized
Reconstitution:	Reconstitution Volume: 100 µL Reconstitution Buffer: Restore with deionized water (or equivalent)

Handling

Concentration:	1.59 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

Publications

Product cited in:	George, Ma, Motyka, Shi, Liu, Griebel: "A dendritic cell-targeted chimeric hepatitis B virus immunotherapeutic vaccine induces both cellular and humoral immune responses in vivo." in: Human vaccines & immunotherapeutics , Vol. 16, Issue 4, pp. 779-792, (2020) (PubMed).
	Schroder, Hertzog, Ravasi, Hume: "Interferon-gamma: an overview of signals, mechanisms and functions." in: Journal of leukocyte biology , Vol. 75, Issue 2, pp. 163-89, (2004) (PubMed).



Western Blotting

Image 1. Western blot using protein-A purified anti-bovine IFN gamma antibody shows detection of recombinant bovine IFN gamma at 16.9 kDa, raised in yeast. Primary antibody was diluted to 1 µg/mL. 3% BSA from 's BSA-30 (Bovine Serum Albumin Solution) was used for blocking. Secondary antibody 611-131-122 (Goat anti-Rabbit IgG IRDye 800) was used at 1:20,000.