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anti-Interferon gamma antibody

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Publications



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Overview

Quantity:	0.1 mg	
Target:	Interferon gamma (IFNG)	
Reactivity:	Human, Non-Human Primate	
Host:	Mouse	
Clonality:	Monoclonal	
Conjugate:	This Interferon gamma antibody is un-conjugated	
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunoprecipitation (IP), Immunocytochemistry (ICC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Radioimmunoassay (RIA)	

Product Details

Immunogen:	Interferon gamma derived from human leukocytes
Clone:	4S-B3
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody 4S.B3 recognizes IFN-gamma, a 16-25 kDa cytokine produced by activated Th1 cells and NK cells. Binds both glycosylated and non-glycosylated protein.
Cross-Reactivity (Details):	Human, Non-Human Primates
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	Interferon gamma (IFNG)
Alternative Name:	IFN-gamma (IFNG Products)
Background:	Interferon gamma, The interferon gamma (IFN-gamma, 16-25 kDa) is an important regulator of
	the immune response, produced in activated Th1 cells and NK cells, particularly in response to
	IL-2, TNF-alpha and IL-12, its production is suppressed by IL-4, IL-10, and TGF-beta. The
	producing of IFN-gamma is activated by specific antigens or mitogens through the T cell
	antigen receptor. IFN-gamma polypeptide forms: 40-60 kDa forms are observable under non-
	denaturing conditions as dimers and trimers, 20 kDa and 25 kDa forms exist due to variable
	glycosylation. IFN-gamma belongs to the type II interferons, also called immune IFN. IFN-
	gamma shows antiviral activity and has important immunoregulatory functions. It is a potent
	activator of macrophages and had antiproliferative effects on transformed cells. IFN-gamma
	plays an important role in regulating B cell differentiation by simultaneously stimulating class
	switch recombination to the IgG3 and IgG2a isotypes while represing class switch
	recombination to the IgE and IgG1 isotypes. It also appears to promote antigen presentation b
	B cells through its effects on MHC. Binding of IFN-gamma to its receptor increases the
	expression of class I MHC on all somatic cells. It also enhances the expression of class II MHC
	on antigen-presenting cells. IFN-gamma is the major means by which T cells activate
	macrophages, increasing their ability to kill bacteria, parasites, and tumours. The activation of
	macrophages by IFN-gamma is essential for the elimination of bacteria that replicate within th
	phagosomes of macrophages (f.e. Mycobacteria and Listeria monocytogenes). IFN-gamma
	can potentiate the high antiviral and antitumor effects of the type I interferons (IFN-alpha, IFN-
	beta). IFN-gamma may also activate neutrophils and NK cells.,Interferon gamma, IFN-gamma
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
Application Details	
Application Notes:	ELISA: This antibody is being used as detection antibody in combination with capture antibody
	NIB42.
	Flow cytometry: Recommended dilution: 1-4 µg/mL. Intracellular staining.

Application Details

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For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM 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
Storage Comment:	Store at 2-8°C. Do not freeze.

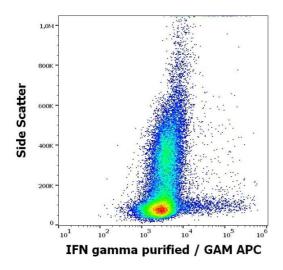
Publications

Product cited in:

Janke, Witsch, Mages, Hutloff, Kroczek: "Eminent role of ICOS costimulation for T cells interacting with plasmacytoid dendritic cells." in: **Immunology**, Vol. 118, Issue 3, pp. 353-60, (2006) (PubMed).

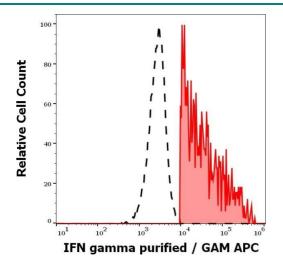
Caulfield, Fernandez, Sousa, Lane, Lee, Hawrylowicz: "Regulation of major histocompatibility complex class II antigens on human alveolar macrophages by granulocyte-macrophage colony-stimulating factor in the presence of glucocorticoids." in: **Immunology**, Vol. 98, Issue 1, pp. 104-10, (1999) (PubMed).

Images



Flow Cytometry

Image 1. Flow cytometry intracellular staining pattern of human PHA stimulated and Brefeldin A treated peripheral blood mononuclear cells stained using anti-IFN gamma (4S.B3) purified antibody (concentration in sample 4 μ g/mL, GAM APC).



Flow Cytometry

Image 2. Separation of human IFN gamma positive lymphocytes (red-filled) from IFN gamma negative lymphocytes (black-dashed) in flow cytometry analysis (intracellular staining) of human PHA stimulated and Brefeldin A treated peripheral blood mononuclear cells stained using anti-IFN gamma (4S.B3) purified antibody (concentration in sample 4 μ g/mL, GAM APC).