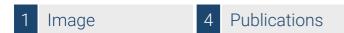


Datasheet for ABIN2749151

anti-Interferon gamma antibody (PE)





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Quantity:	100 tests
Target:	Interferon gamma (IFNG)
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Interferon gamma antibody is conjugated to PE
Application:	Intracellular Flow Cytometry (ICFC)

Product Details

Purpose:	Anti-IFN gamma PE
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 antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

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:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagen	
	/ 100 μL of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for	
	100 tests. Intracellular staining.	

Application Details

Restrictions:	For Research Use only
Handling	
Buffer:	Stabilizing 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. Protect from prolonged exposure to light. Do not freeze.
Publications	

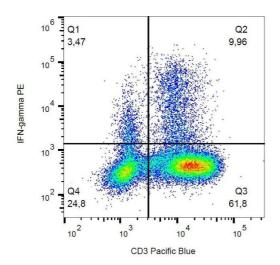
Product cited in:

Brincks, Kucaba, Legge, Griffith: "Influenza-induced expression of functional tumor necrosis factor-related apoptosis-inducing ligand on human peripheral blood mononuclear cells." in: **Human immunology**, Vol. 69, Issue 10, pp. 634-46, (2008) (PubMed).

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).

Coles, Wing, Smith, Coraddu, Greer, Taylor, Weetman, Hale, Chatterjee, Waldmann, Compston: "Pulsed monoclonal antibody treatment and autoimmune thyroid disease in multiple sclerosis." in: **Lancet (London, England)**, Vol. 354, Issue 9191, pp. 1691-5, (1999) (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).



Flow Cytometry

Image 1. Intracellular staining of IFN gamma in PHA-activated human PBMC with anti-IFN gamma (4S.B3) PE.