Datasheet for ABIN967468

anti-Interferon gamma antibody

2 Images

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Overview

Quantity:	0.1 mg
Target:	Interferon gamma (IFNG)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Interferon gamma antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), ELISA (Detection)

Product Details

Immunogen:	Partially purified human IFN-gamma from supernatants of human PBMC stimulated with Staphylococcus aureus
Clone:	4S-B3
Isotype:	IgG1 kappa
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
Purification:	Purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	Interferon gamma (IFNG)
Alternative Name:	IFN-gamma (IFNG Products)
Background:	The 4S.B3 antibody reacts with human interferon-gamma (IFN-gamma). The immunogen used to generate this hybridoma was partially purified human IFN-gamma obtained from supernatants of human PBMC stimulated with Staphylococcus aureus. This is a neutralizing antibody.
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:	Blocking Control for Intracellular Staining: The purified 4S.B3 antibody (ABIN967468) can be used as a blocking control to demonstrate specificity of IFN-gamma staining by directly conjugated clone 4S.B3. To perform this control, the fixed/permeabilized cells (~1 million) can be incubated with 1-10 µg of purified 4S.B3 antibody (ABIN967468) for 20 minutes at 4°C, prior to staining with the directly conjugated antibody (e.g., 0.1 -0.5 µg mAb/1 million cells) (right panel). The intracellular cytokine staining technique and use of blocking controls are described in detail by C. Prussin and D. Metcalfe. ELISA Detection: The biotinylated 4S.B3 antibody is useful as a detection antibody in a sandwich ELISA for measuring human IFN-gamma protein levels. Biotinylated 4S.B3 antibody can be paired with the purified NIB42 antibody as the capture antibody, with recombinant human IFN-gamma as the standard. For testing human IFN-gamma complex in biological fluids like serum or plasma, our human IFN-gamma specific OptEIA™ sandwich ELISA set and OptEIA™ sandwich ELISA kit are recommended. Western Blot: The 4S.B3 antibody has been found useful for Western blotting.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/ml
Buffer:	Aqueous buffered solution.
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

Images

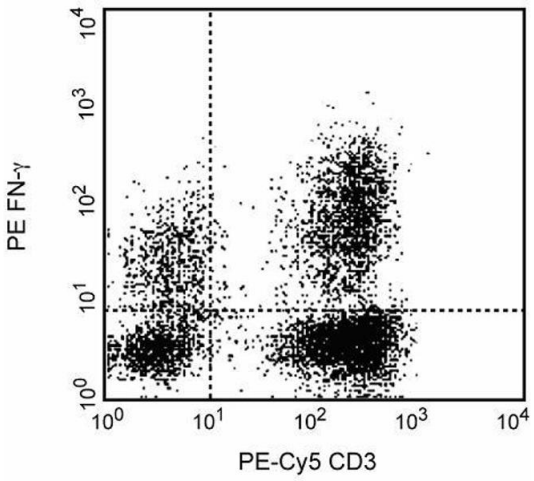
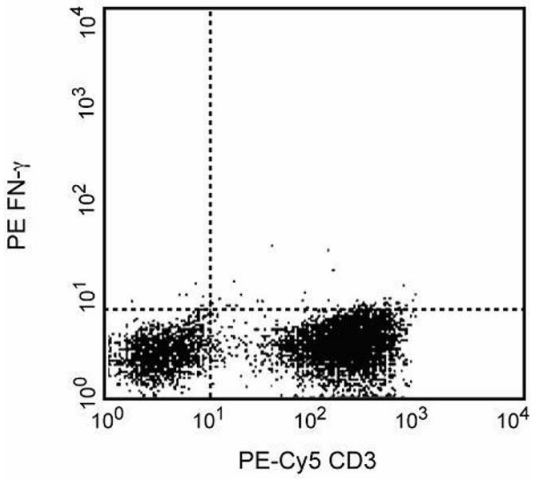


Image 1. Expression of IFN-gamma by stimulated human peripheral blood mononuclear cells (PBMC). Human PBMC were stimulated for 6 hr with PMA (50 ng/ml, Sigma) and calcium ionophore A23187 (500 ng/ml, Sigma) in the presence of 2 µM BD GolgiStop™. The PBMC were stained with PE-Cy5-anti-CD3 (PE-Cy5 UCHT1), fixed, permeabilized, and subsequently stained with 0.125 µg of PE-mouse anti-human IFN-gamma antibody (PE-4S.B3) by using Pharmingen's staining protocol (first panel). The binding of PE-4S.B3 was blocked by preincubation of cells with unlabeled 4S.B3 antibody (5 µg, second panel). The quadrant markers for the bivariate dot plot were set based on the autofluorescence controls and verified using the unlabeled antibody and ligand blocking controls.



Flow Cytometry

Image 2. The binding of PE-4S.B3 was blocked by preincubation of cells with unlabeled 4S.B3 antibody.