Datasheet for ABIN967652

anti-IFNGR1 antibody

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Overview

Quantity:	0.5 mg
Target:	IFNGR1
Reactivity:	Mouse
Host:	Armenian Hamster
Clonality:	Monoclonal
Conjugate:	This IFNGR1 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunoprecipitation (IP)

Product Details

Brand:	BD Pharmingen™
Immunogen:	Purified preparation of soluble recombinant mouse IFN-gammaRalpha chain protein
Clone:	2E2
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:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	IFNGR1
Alternative Name:	CD119 (IFNGR1 Products)
Background:	The 2E2 antibody recognizes the extracellular region of the 90 kDa alpha chain subunit of the mouse interferon-gamma receptor (IFN-gammaRalpha, aka, CD119). The functionally active-form of the mouse IFN-gamma receptor consists of two (or more) subunits, with IFN-gammaRalpha responsible for IFN-gamma binding and both the IFN-gammaRalpha and IFN-gammaRbeta chains required for the transduction of biologic responses. IFN-gammaRalpha is expressed by a variety of cell lines and normal mouse cells (except mature erythrocytes) including T cells, B cells, NK cells, monocytes, neutrophils, fibroblasts, epithelial and endothelial cells. The 2E2 antibody is a non-neutralizing antibody, it does not block the binding of IFN-gamma to its receptor. The immunogen used to generate this hybridoma was a purified preparation of soluble recombinant mouse IFN-gammaRalpha chain protein. Synonyms: IFN-gamma Receptor alpha chain
Pathways:	Interferon-gamma Pathway

Application Details

Application Notes:	Immunofluorescent Staining and Flow Cytometric Analysis: The purified form of 2E2 can be used for the immunofluorescent staining (Less or equal than 1 µg antibody/10e6 cells) and flow cytometric analysis of normal mouse cells or cell lines to measure their expressed levels of IFN-gammaRalpha. An appropriate purified immunoglobulin isotype control is A19-3. A three-layer staining protocol is recommended for maximizing the detection IFN-gammaRalpha chains expressed by cells as detailed in the figure legend. 2E2 is a nonblocking antibody that can be used for the unobstructed immunofluorescent staining and flow cytometric analysis of cells in systems where the ligand (i.e., IFN-gamma) for IFN-gamma receptors is present. Immunoprecipitation: The 2E2 antibody has been reported to be useful for the immunoprecipitation of IFN-gammaRalpha chains from lysates of cloned mouse T cells.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Aqueous buffered solution containing ≤0.09 % sodium azide.

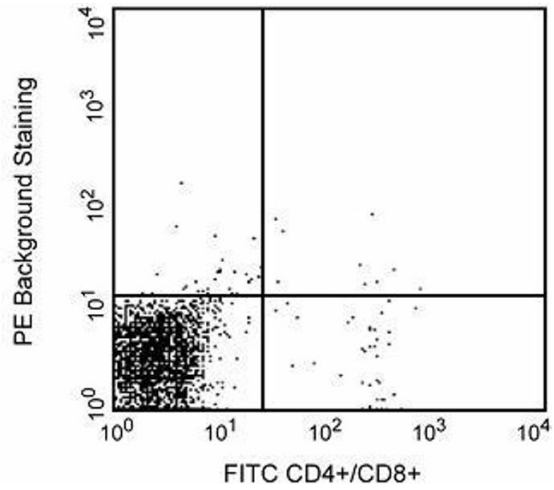
Handling

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 undiluted at 4° C.

Publications

Product cited in:	Bach, Szabo, Dighe, Ashkenazi, Aguet, Murphy, Schreiber: "Ligand-induced autoregulation of IFN-gamma receptor beta chain expression in T helper cell subsets." in: **Science (New York, N.Y.)**, Vol. 270, Issue 5239, pp. 1215-8, (1996) (PubMed).

Images



Flow Cytometry

Image 1. Expression of cell surface IFN-gammaRalpha chains by BALB/c splenic lymphocytes. BALB/c spleen cells (including erythrocytes) were preincubated (~15 minutes, 4°C) with purified 2.4G2 antibody [BD Fc Block™, 1 µg antibody/10e6 cells]. The cells were stained (30 minutes, 4°C) with purified 2E2 antibody (0.5 µg mAb/10e6 cells, ABIN967652). After washing, the cells were incubated (30 minutes, 4°C) with a biotin-conjugated cocktail of mouse anti-hamster antibodies (Clones G70-204 + G94-56, 0.5 µg mAb cocktail/10e6 cells). Finally, the cells were washed and incubated with R-PE-conjugated Streptavidin (0.015 µg PE-SA/10e6 cells) and FITC-anti-CD4 (clone RM4-5) and FITC-anti-CD8 (clone 53-6.7), both at 0.06 µg mAb/10e6 cells. After washing, the cells were analyzed with a FACScan™ Flow Cytometer. The immunofluorescent staining patterns for erythrocytes and lymphocytes that were either not stained with 2E2 (top images, background staining) or were stained with purified 2E2 (bottom images) followed by the 2nd and 3rd layer reagents shown at right. The two-color

dot plots were generated by gating for cells that had the light-scattering characteristics of erythrocytes (left images) or lymphocytes (right images). The data indicates that mouse erythrocytes are uniformly negative for IFN-gammaRalpha expression whereas most T cells (i.e., CD4+/CD8+ cells) and CD4-CD8- lymphocytes constitutively express medium levels of IFN-gammaRalpha chains.

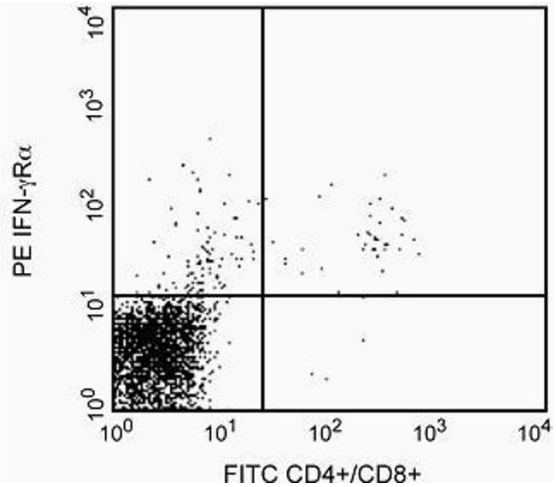


Image 2. See first image description

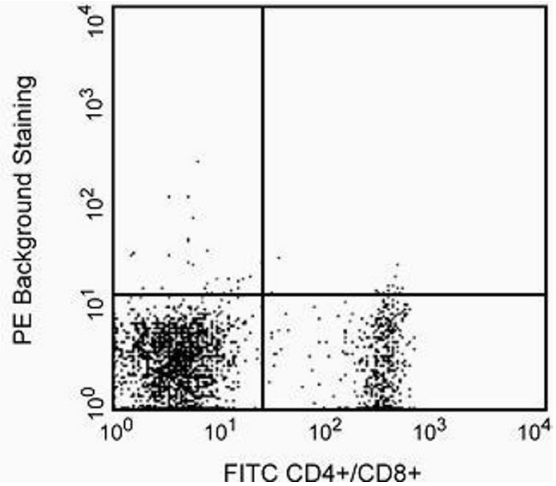


Image 3. See first image description

Please check the product details page for more images. Overall 4 images are available for ABIN967652.