

PE anti-human CD119 (IFN- γ R α chain)

Catalog # / Size: 308703 / 25 tests
308704 / 100 tests

Clone: GIR-94

Isotype: Mouse IgG2b, κ

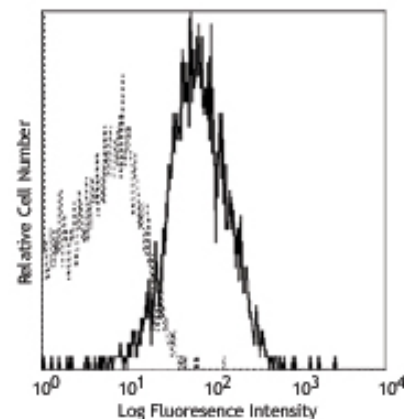
Immunogen: Human IFN- γ R α , purified from human placenta

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood lymphocytes stained with biotinylated GIR-94 and detected with Sav-PE

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 μ l to 5 μ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 μ l staining volume or per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change.

Application Notes: Additional reported applications (for the relevant formats) include: Western blotting^{3,4}, immunoprecipitation^{3,4}, immunofluorescence microscopy⁶. GIR-94 antibody does not inhibit IFN- γ binding to IFN- γ R α chain. For most successful immunofluorescent staining results, it may be important to maximize signal over background by using a relatively bright fluorochrome-antibody conjugate (Cat. No. 308704) or by using a high sensitivity, three-layer staining technique (e.g., including a biotinylated antibody (Cat. No. 308706) or biotinylated anti-mouse IgG second step (Cat. No. 405303), followed by SAV-PE (Cat. No. 405204)).

Application References:

1. Sheehan K, *et al.* 1988. *J. Immunol.* 140:4231.
2. Jouanguy E, *et al.* 2000. *J. Clin. Invest.* 105:1429.
3. Kaplan D, *et al.* 1996. *J. Biol. Chem.* 271:9. (WB IP)
4. Bach EA, *et al.* 1996. *Mol. Cell. Biol.* 16:3214. (WB IP)
5. Choi JC, *et al.* 2007. *J. Immunol.* 178:1598.
6. Humlicek AL, *et al.* 2007. *J. Immunol.* 178:6395. (IF)

Description: CDw119 is a 90-100 kD type I transmembrane protein, also known as IFN- γ R α chain or IFN- γ RI. The IFN- γ receptor is a complex of a high affinity IFN- γ -binding chain (aka, IFN- γ R α chain) and a second accessory protein required for signal transduction known as IFN- γ R β chain. The IFN- γ R α chain is a member of the class II cytokine receptor family. Binding of IFN- γ induces receptor dimerization and internalization. Signal transduction involves Jak1 and Jak2 protein kinases and involves STAT1 activation. The IFN- γ receptor is expressed at moderate levels on virtually every cell with the exception of erythrocytes.

Antigen References:

1. Calderon J, *et al.* 1988. *P. Natl. Acad. Sci. USA* 85:4837.
2. Basler C, *et al.* 2002. *Int. Rev. Immunol.* 21:305.
3. Brierley M, *et al.* 2002. *J. Interferon Cytokine Res.* 22:835.

Related Products:	Product	Clone	Application
	PE Mouse IgG2b, κ Isotype Ctrl	MPC-11	FC, ICFC
	PE Streptavidin		FC, ICFC
	Cell Staining Buffer		FC, ICC, ICFC
	RBC Lysis Buffer (10X)		FC, ICFC
	PE anti-human IFN- γ R β chain	2HUB-159	FC
	PE anti-human CD119 (IFN- γ R α chain)	GIR-208	FC
	Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC

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