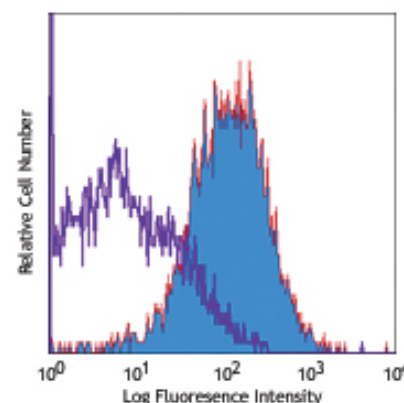


Product Data Sheet

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

Catalog # / Size: 308702 / 100 μ g
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.
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration: 0.5 mg/ml
Storage: The antibody solution should be stored undiluted at 4°C.



Human peripheral blood lymphocytes stained with purified GIR-94, followed by biotinylated anti-mouse IgGs and Sav-PE

Applications:

Applications: FC - *Quality tested*
 WB, IP, IF - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤ 0.5 μ g per million cells in 100 μ l volume. It is recommended that the reagent be titrated for optimal performance for each application.

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
AKP Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	ELISA, WB, IHC
APC Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	FC
Biotin Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	FC, ELISA, IHC, IF, WB
HRP Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	ELISA, IHC, WB
Purified Mouse IgG2b, κ Isotype Ctrl	MPC-11	FC, ICFC, ICC, IF, IHC, IP, WB
PE Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	FC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
Purified anti-human IFN- γ R β chain	2HUB-159	FC, IP, WB
Purified anti-human CD119 (IFN- γ R α chain)	GIR-208	FC, IHC, IP, WB



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