

# Product Data Sheet

## Purified anti-human CD119 (IFN- $\gamma$ R $\alpha$ chain)

**Catalog # / Size:** 308602 / 100  $\mu$ g

**Clone:** GIR-208

**Isotype:** Mouse IgG1,  $\kappa$

**Workshop Number:** VI C-110

**Immunogen:** Human IFN- $\gamma$ R $\alpha$ , Purified from human placenta

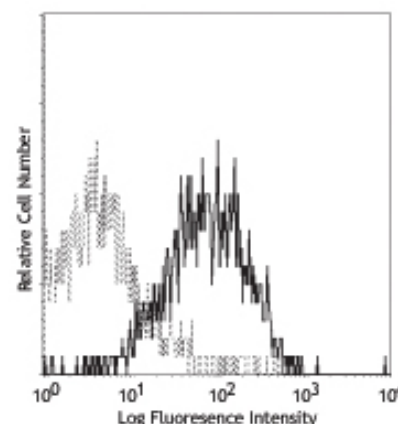
**Reactivity:** Human

**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-208, then detected with biotinylated anti-mouse IgG followed by Sav-PE

## Applications:

**Applications:** FC - *Quality tested*  
 WB, IP, IHC - *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  $\leq 0.5$   $\mu$ g per million cells in 100  $\mu$ 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<sup>1</sup> under non-reducing conditions, immunoprecipitation<sup>1</sup>, immunohistochemistry<sup>3</sup> of snap frozen sections, and blocking<sup>1</sup> of IFN- $\gamma$  binding to IFN- $\gamma$  R  $\alpha$  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. 308606) or by using a high sensitivity, three-layer staining technique (e.g., including a biotinylated anti-mouse IgG second step (Cat. No. 405303), followed by SAV-PE (Cat. No. 405204)). The LEAF™ Purified antibody (Endotoxin  $<0.1$  EU/ $\mu$ g, Azide-Free, 0.2  $\mu$ m filtered) is recommended for functional assays (Cat. No. 308604).

**Application References:** 1. Sheehan K, *et al.* 1988. *J. Immunol.* 140:4231. (WB IP Block)  
 2. Kishimoto T, *et al.* Eds. 1997. *Leucocyte Typing VI*. Garland Publishing Inc. London.  
 3. Peyman JA, *et al.* 1992. *J. Immunol.* 149:2675. (IHC)

**Description:** CDw119 is a 90-100 kD type I transmembrane protein, also known as IFN- $\gamma$  R  $\alpha$  chain or IFN- $\gamma$ RI. The IFN- $\gamma$  receptor is a complex of a high affinity IFN- $\gamma$ -binding chain (aka, IFN- $\gamma$  R  $\alpha$  chain) and a second accessory protein required for signal transduction known as IFN- $\gamma$  R  $\beta$  chain. The IFN- $\gamma$  R  $\alpha$  chain is a member of the class II cytokine receptor family. Binding of IFN- $\gamma$  induces receptor dimerization and internalization. Signal transduction involves Jak1 and Jak2 protein kinases and involves STAT1 activation. The IFN- $\gamma$  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**  
 Purified Mouse IgG1,  $\kappa$  Isotype Ctrl  
 Biotin Goat anti-mouse IgG (minimal x-reactivity)  
 PE Goat anti-mouse IgG (minimal x-reactivity)  
 PE Streptavidin  
 PE/Cy5 Streptavidin  
 Cell Staining Buffer  
 RBC Lysis Buffer (10X)  
 Purified anti-human IFN- $\gamma$  R  $\beta$  chain  
 Purified anti-human CD119 (IFN- $\gamma$  R  $\alpha$  chain)

**Clone**  
 MOPC-21  
 Poly4053  
 Poly4053

2HUB-159  
 GIR-94

### Application

FC, ICFC, ICC, IF, IHC, IP, WB  
 FC, ELISA, IHC, IF, WB  
 FC  
 FC, ICFC  
 FC, ICFC  
 FC, ICC, ICFC  
 FC, ICFC  
 FC, IP, WB  
 FC, IF, IP, WB



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