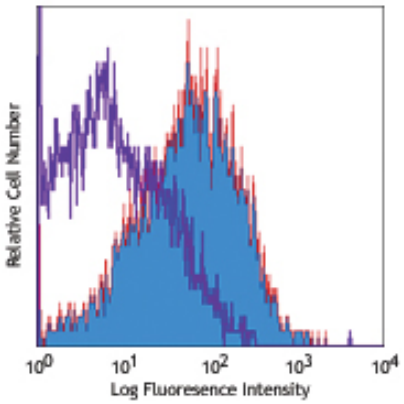
BioLegend
The path to legendary discovery™

Product Data Sheet

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

Catalog # / Size: 308604 / 500 µg
Clone: GIR-208
Isotype: Mouse IgG1, κ
Workshop Number: VI C-110
Immunogen: Human IFN-γRα, Purified from human placenta
Reactivity: Human
Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.
Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.
Concentration: 1.0 mg/ml
Storage: The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.



Human peripheral blood lymphocytes stained with LEAF™ purified GIR-208, detected with biotinylated anti-mouse IgGs and Sav-PE

Applications:

Applications: FC - *Quality tested*
WB, IP, Block, 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 ≤0.5 µg per million cells in 100 µl volume or 100 µl of whole blood. 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[1] under non-reducing conditions, immunoprecipitation[1], immunohistochemistry[3] of snap frozen sections, and blocking[1] of 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. 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/µg, Azide-Free, 0.2 µm 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-γ R α chain or IFN-γRI. 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
LEAF™ Purified Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC, WB, IP, ICC, IF, FA
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
LEAF™ Purified anti-human IFN-γ R β chain	2HUB-159	FC, IP, WB

BioLegend Inc., 9727 Pacific Heights Blvd, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587