

Technical Data Sheet

Purified NA/LE Mouse Anti-Human CD119

Product Information

Material Number:	557531
Alternate Name:	IFN- γ Receptor α chain, IFN γ R α
Size:	0.25 mg
Concentration:	1.0 mg/ml
Clone:	GIR-208
Immunogen:	Human IFN- γ R α
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Storage Buffer:	No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2 μ m sterile filtered. Endotoxin level is ≤ 0.01 EU/ μ g (≤ 0.001 ng/ μ g) of protein as determined by the LAL assay.

Description

The GIR-208 antibody recognizes the extracellular region of CD119 which is also known as the alpha chain subunit (80-95 kDa glycoprotein) of the human interferon- γ receptor (IFN- γ R α). The functionally active-form of the human IFN- γ receptor consists of two (or more) subunits, with IFN- γ R α responsible for IFN- γ binding and both the IFN- γ R α and β chains required for the transduction of biologic responses. The IFN- γ receptor α chain (CD119) is expressed on the surface of most human cells (except mature erythrocytes) including monocytes, macrophages, T cells, B cells, NK cells, neutrophils, fibroblasts, epithelial cells, and endothelium. Binding of 125I-labeled GIR-208 antibody to IFN- γ R α + cells is reported to be specifically inhibited in the presence of excess IFN- γ . GIR-208 does not cross react with IFN- γ as tested by ELISA. The ability of this antibody to bind to IFN- γ receptors of species other than human has not been determined. The immunogen used to generate this hybridoma was human IFN- γ R α purified from human placenta. The GIR-208 has been reported to block the binding of 125I-human IFN- γ to IFN- γ R α + cells as well as purified, soluble human IFN- γ R α . GIR-208 is a neutralizing antibody that has been shown to neutralize the anti-viral activity of IFN- γ on WISH cells in a dose-dependent fashion.

Preparation and Storage

Store undiluted at 4°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

This preparation contains no preservatives, thus it should be handled under aseptic conditions.

Application Notes

Application

ELISA	Routinely Tested
Neutralization	Tested During Development
Flow cytometry	Tested During Development

Neutralization Activity:

This antibody has been reported to be useful for the neutralization of human IFN- γ anti-viral activity. Neutralization may be measured with a encephalomyocarditis viral (EMCV) resistance assay using 600 pg/mL recombinant human IFN- γ (Cat. No. 554617) with A549 indicator cells.

50% Neutralization (ND50) 0.2 - 2 μ g/mL

$\geq 90\%$ Neutralization at 5 - 50 μ g/mL

Suggested Companion Products

Catalog Number	Name	Size	Clone
554721	Purified NA/LE Mouse IgG1 κ Isotype Control	0.5 mg	107.3
554617	Recombinant Human IFN- γ	50 μ g	(none)

Product Notices

- Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

Bach EA, Aguet M, Schreiber RD. The IFN gamma receptor: a paradigm for cytokine receptor signaling. *Annu Rev Immunol.* 1997; 15:563-591. (Biology)
 Peyman JA, Hammond GL. Localization of IFN-gamma receptor in first trimester placenta to trophoblasts but lack of stimulation of HLA-DRA, -DRB, or invariant chain mRNA expression by IFN-gamma. *J Immunol.* 1992; 149(8):2675-2680. (Biology: Flow cytometry)
 Sheehan KC, Calderon J, Schreiber RD. Generation and characterization of monoclonal antibodies specific for the human IFN-gamma receptor. *J Immunol.* 1988; 140(12):4231-4237. (Biology: Blocking, Neutralization, Western blot)

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