Technical Data Sheet

Biotin Anti-Mouse IFN-γ

Product Information

Material Number:	**551506**
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	R4-6A2
Immunogen:	Partially-Purified Mouse IFN-γ
Isotype:	Rat IgG1, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The R4-6A2 antibody reacts with mouse interferon-γ (IFN-γ). The immunogen used to generate the R4-6A2 hybridoma was partially-purified mouse IFN-γ protein. This is a neutralizing antibody.

This antibody is routinely tested by ELISA detection analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
The antibody was conjugated with biotin under optimum conditions, and unreacted biotin was removed.
Store undiluted at 4° C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application	
ELISA Detection	Routinely Tested

Recommended Assay Procedure:
ELISA Detection: The R4-6A2 antibody has been found to be useful in sandwich ELISAs that measure mouse IFN-γ protein levels. The biotinylated R4-6A2 antibody (Cat. No. 551506) can be used as a detection antibody along with purified AN-18 (Cat. No. 551309) as the capture antibody and recombinant mouse IFN-γ (Cat. No. 554587) as the standard. The biotinylated R4-6A2 antibody should be titrated 0.5 -2 µg/ml to determine its optimal concentration for ELISA detection. To obtain linear standard curves, doubling dilutions of mouse IFN-γ ranging from ~500 to 5 pg/ml are recommended for inclusion in each ELISA plate. For specific methodology, please visit our website, www.bdbiosciences.com, and go to the protocols section or the chapter on ELISA in the Immune Function Handbook, also posted on the website. For maximal sensitivity, an overnight incubation (4°C) of samples/standards with the coated capture antibody is suggested.

Note: This ELISA pair is recommended primarily for measuring cytokine from experimental cell culture systems. These ELISA reagents are not recommended for assaying serum or plasma samples. For measuring mouse IFN-γ in serum or plasma our mouse IFN-γ BD OptEIA™ set (Cat. No. 551866) or BD OptEIA™ kit (Cat. No. 558258) are specially formulated and recommended.

Suggested Companion Products

Catalog Number	Name	Size	Clone
554587	Recombinant Mouse IFN-γ Protein	10 µg	(none)
558258	Mouse IFN-g ELISA Kit II	2 plates	(none)
551309	Purified Rat Anti-Mouse IFN-γ	0.5 mg	AN-18.1.1
551866	Mouse IFN-γ OptEIA Set	20 tests	

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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References

Abrams JS, Roncarolo MG, Yssel H, Andersson U, Gleich GJ, Silver JE. Strategies of anti-cytokine monoclonal antibody development: immunoassay of IL-10 and IL-5 in clinical samples. *Immunol Rev*. 1992; 127:5-24.(Clone-specific: ELISA)

Slade SJ, Langhorne J. Production of interferon-gamma during infection of mice with Plasmodium chabaudi chabaudi. *Immunobiology*. 1989; 179(4-5):353-365. (Clone-specific: ELISA)

Spitalny GL, Havell EA. Monoclonal antibody to murine gamma interferon inhibits lymphokine-induced antiviral and macrophage tumoricidal activities. *J Exp Med*. 1984; 159(5):1560-1565.(Clone-specific: ELISA)