

Technical Data Sheet

Biotin Mouse Anti-Rat IL-6

Product Information

Material Number:	550642
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	G307-2
Immunogen:	Recombinant Rat IL-6
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Rat
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The G307-2 antibody reacts with rat IL-6. The immunogen used to generate the G307-2 hybridoma was recombinant rat IL-6.

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
Western blot	Reported

Recommended Assay Procedure:

ELISA Detection: This biotinylated G307-2 antibody is useful as a detection antibody for a sandwich ELISA for measuring rat IL-6 protein levels. Biotinylated G307-2 antibody can be paired with the purified C3-4 antibody (Cat. No. 550644) as the capture antibody, with recombinant rat IL-6 (Cat. No. 557008) as the standard. Biotinylated G307-2 antibody should be titrated (4 - 8 $\mu\text{g/ml}$) to determine optimal concentration for ELISA detection. To obtain linear standard curves, doubling dilutions of rat IL-6 ranging from $\sim 10,000$ to 78 pg/ml are recommended for inclusion in each ELISA plate. For specific methodology, please visit the protocols section or chapter on ELISA in the Immune Function Handbook, both of which are posted on our web site, www.bdbiosciences.com. **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 rat IL-6 in serum or plasma our rat IL-6 BD OptEIA™ ELISA Set (Cat. No. 550319) is specially formulated and recommended.

Western Blot: The biotinylated G307-2 antibody has been reported by useful for Western blot. Please note that this application is not routinely tested at BD Biosciences Pharmingen.

Suggested Companion Products

Catalog Number	Name	Size	Clone
550644	Purified Mouse Anti-Rat IL-6	0.5 mg	C3-4
557008	Recombinant Rat IL-6	5 μg	(none)
550319	Rat IL-6 ELISA Set	20 tests	(none)

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.

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