Technical Data Sheet

Purified NA/LE Hamster Anti-Mouse IL-1β

Product Information

 Material Number:
 557539

 Size:
 0.25 mg

 Concentration:
 1.0 mg/ml

 Clone:
 B122

 Immunogen:
 Mouse IL-1β Protein

 Isotype:
 Armenian Hamster IgG, λ1

 Reactivity:
 QC Testing: Mouse

Storage Buffer: No azide/low endotoxin: Aqueous buffered solution containing no preservative,

 $0.2\mu m$ sterile filtered. Endotoxin level is ≤ 0.01 EU/ μg (≤ 0.001 ng/ μg) of

protein as determined by the LAL assay.

Description

The B122 antibody recognizes the precursor and mature secreted forms of the mouse IL-1 β protein. B122 neutralizes the biological activity of mouse IL-1 β , but not the biological activities of mouse IL-1 α nor human IL-1 β . B122 does not recognize mouse IL-2, IL-4, IL-6, IL-10, TNF or IFN- γ . This antibody also recognizes rat IL-1 β . The immunogen used to generate the B122 hybridoma was a purified, mature form of the mouse IL-1 β protein.

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

-FF	
ELISA	Routinely Tested
Neutralization	Tested During Development
Immunoprecipitation	Reported

Neutralization Activity:

This antibody has been reported to be useful for the neutralization application. Neutralization of mouse IL- 1β bioactivity may be measured with a proliferation assay using 2 ng/mL recombinant mouse IL- 1β (Cat. No. 554577) to stimulate TF-1 cells at 1×10^5 cells/mL as indicator cells (i.e. preincubation of the antibody with recombinant mouse IL- 1β for 60 minutes).

50% Neutralization (ND50) at 25 - 100 ng/mL

≥ 95% Neutralization at 125 - 500 ng/mL

Recommended Assay Procedure:

ELISA: Purified Hamster Anti-Mouse IL-1β (Cat. No. 550605) has been reported to be useful as a capture antibody for sandwich ELISA measuring mouse IL-1β protein levels. For measuring mouse IL-1β in complex biological samples, such as serum or plasma, investigators are highly encouraged to use the BD OptEIATM Mouse IL-1β ELISA Set (Cat. No 559603).

Immunoprecipitation: Purified Hamster Anti-Mouse IL- 1β (clone B122) has been reported to be useful for the immunoprecipitation of both natural and recombinant forms of mouse IL- 1β protein. Please note that this antibody is not routinely tested for this application.

Suggested Companion Products

Catalog Number	Name	Size	Clone	
554709	Purified NA/LE Hamster IgG1, λ1 Isotype Control	0.5 mg	G235-2356	
554577	Recombinant Mouse IL-1β	5 μg	(none)	
559603	Mouse IL-1β ELISA Set	20 plates	(none)	

Product Notices

- 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- 2. An isotype control should be used at the same concentration as the antibody of interest.
- 3. Although hamster immunoglobulin isotypes have not been well defined, BD Biosciences Pharmingen has grouped Armenian and Syrian hamster IgG monoclonal antibodies according to their reactivity with a panel of mouse anti-hamster IgG mAbs. A table of the hamster IgG groups, Reactivity of Mouse Anti-Hamster Ig mAbs, may be viewed at http://www.bdbiosciences.com/documents/hamster_chart_11x17.pdf.
- Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

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