

IL-1 beta Monoclonal Antibody (B122), Functional Grade, eBioscience™

Product Details	
Size	50 µg
Species Reactivity	Mouse, Rat
Published Species	Mouse
Host/Isotope	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	B122
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage Conditions	4° C
RRID	AB_469200

Applications	Tested	Dilution	Published
Neutralization (Neu)	✓	Assay-Dependent	1 Publication
Western Blot (WB)	-		1 Publication
ELISA (ELISA)	✓	0.125 µg/mL	
Functional Assay (FN)	✓	Assay-Dependent	

Product Specific Information

Description: The B122 antibody reacts with mouse and rat interleukin-1beta (IL-1beta), a 17 kDa factor secreted primarily by monocytes. IL-1 has effects on T-helper cells, inducing IL-2 secretion and expression of IL-2 receptors.

Applications Reported: The B122 antibody has been reported for use in cytokine neutralization and ELISA capture.

Applications Tested: The Functional Grade Purified B122 antibody has been tested by LAL assay to verify low endotoxin levels, by ELISA, and in bioassay for neutralization of mouse IL-1 beta bioactivity.

The B122 antibody at 0.125 µg/mL has been found to inhibit by 50% the biological effects of 4.0 ng/mL mouse IL-1 beta in a D10 cell proliferation assay. Detailed information and protocols about cytokine bioassays and in vitro cytokine neutralization using antibodies can be found in the BestProtocols® section.

The B122 antibody has been tested as the capture antibody in a sandwich ELISA for analysis of mouse interleukin-1 beta (IL-1

beta) in combination with the biotin anti-mouse Interleukin-1 beta (IL-1 beta) polyclonal (13-7112) antibody for detection and recombinant mouse IL-1 beta (14-8012) as the standard. A suitable range of concentrations of this antibody for ELISA capture is 1-4 µg/mL. A standard curve consisting of doubling dilutions of the recombinant standard over the range of 2000 pg/mL - 15 pg/mL should be included in each ELISA plate.

Endotoxin: Less than 0.001 ng/ug antibody as determined by the LAL assay.

Storage and handling: Use in a sterile environment.

Filtration: 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

Endotoxin Level: Less than 0.001 ng/µg antibody, as determined by LAL assay.

Aggregation: Less than 10%, as determined by HPLC.

2 References

Neutralization (1)

PLoS pathogens

Caspase-11 activation in response to bacterial secretion systems that access the host cytosol.

"16-7012 was used in Neutralization experiments to demonstrate that virulent bacteria trigger a rapid caspase-11-dependent innate immune response."

Authors: Casson CN,Copenhaver AM,Zwack EE,Nguyen HT,Strowig T,Javdan B,Bradley WP,Fung TC,Flavell RA,Brodsky IE,Shin S

Species
Mouse

Dilution
Not Cited

Year
2014

Western Blot (1)

Islets

The lysine deacetylase inhibitor Givinostat inhibits -cell IL-1 induced IL-1 transcription and processing.

"16-7012 was used in Western Blotting to demonstrate that inhibition of -cell IL-1 expression and processing and Cxcl10 transcription contributes to the -cell protective actions of KDACi."

Authors: Dahllöf MS,Christensen DP,Lundh M,Dinareello CA,Mascagni P,Grunnet LG,Mandrup-Poulsen T

Species
Mouse

Dilution
Not Cited

Year
2013

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