

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

Product Details

Size	50 µg
Species Reactivity	Mouse, Rat
Published Species	Rat, Mouse
Host/Isotype	Armenian hamster / IgG
Class	Monoclonal
Type	Antibody
Clone	B122
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_468396

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	-	1 Publication
ELISA (ELISA)	1-4 µg/mL	14 Publications
Neutralization (Neu)	Assay-Dependent	7 Publications
Functional Assay (FN)	Assay-Dependent	2 Publications

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, immunoblotting (WB), and ELISA. Please refer to Functional Grade purified B122 (cat. 16-7012) for functional assays.

Applications Tested: 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 biotinylated polyclonal anti-mouse interleukin-1 beta 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.

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

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

Filtration: 0.2 µm post-manufacturing filtered.

Flow Cytometry (1)

<p>PloS one</p> <p>Preclinical Development of Ipilimumab and Nivolumab Combination Immunotherapy: Mouse Tumor Models, In Vitro Functional Studies, and Cynomolgus Macaque Toxicology.</p> <p>"14-7012 was used in Flow cytometry/Cell sorting to exhibit a preclinical strategy for the identification and development of highly effective antitumour combination immunotherapies."</p> <p>Authors: Selby MJ,Engelhardt JJ,Johnston RJ,Lu LS,Han M,Thudium K,Yao D,Quigley M,Valle J,Wang C,Chen B, Cardarelli PM,Blanset D,Korman AJ</p>	<p>Year 2017</p> <p>Species Mouse</p>
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ELISA (14)

<p>Frontiers in immunology</p> <p>Dnase1L3 Regulates Inflammasome-Dependent Cytokine Secretion.</p> <p>"14-7012 was used in an ELISA assay to investigate the possibility that immune activation, specifically inflammasome activation, is regulated by Dnase1L3."</p> <p>Authors: Shi G,Abbott KN,Wu W,Salter RD,Keyel PA</p>	<p>Year 2023</p> <p>Species Mouse</p>
<p>Cell</p> <p>Origin and Function of Stress-Induced IL-6 in Murine Models.</p> <p>"14-7012-81 was used in ELISA to study the cytokine interleukin-6 (IL-6) and its induction following acute stress in mouse models."</p> <p>Authors: Qing H,Desrouleaux R,Israni-Winger K,Mineur YS,Fogelman N,Zhang C,Rashed S,Palm NW,Sinha R, Picciotto MR,Perry RJ,Wang A</p>	<p>Year 2020</p> <p>Species Mouse</p>

[View more ELISA references on thermofisher.com](#)

Neutralization (7)

<p>Molecular neurodegeneration</p> <p>NLRP12 collaborates with NLRP3 and NLRC4 to promote pyroptosis inducing ganglion cell death of acute glaucoma.</p> <p>"14-7012-81 was used in Neutralization to indicate that the collaborative effects of NLRP12, NLRP3 and NLRC4 on pyroptosis are responsible for RGCs death and shed novel mechanistic insights into microglial pyroptosis, paving novel therapeutic avenues for the treatment of glaucoma-induced irreversible vision loss through simultaneously targeting of pyroptosis."</p> <p>Authors: Chen H,Deng Y,Gan X,Li Y,Huang W,Lu L,Wei L,Su L,Luo J,Zou B,Hong Y,Cao Y,Liu Y,Chi W</p>	<p>Year 2020</p> <p>Species Mouse</p> <p>Dilution 1:200</p>
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FN (2)

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