

# IL-1 beta Monoclonal Antibody (CRM57), Biotin, eBioscience™

## Product Details

Size	50 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG2b
Class	Monoclonal
Type	Antibody
Clone	CRM57
Conjugate	Biotin
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, store in dark, DO NOT FREEZE!
RRID	AB_466894

Applications	Tested Dilution	Publications
ELISA (ELISA)	0.25-1 µg/mL	3 Publications
Peptide array (Array)	-	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

## Product Specific Information

**Description:** The CRM57 antibody reacts with human and baboon interleukin-1beta (IL-1beta). IL-1beta is 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. IL-1 has effects on B cells, promoting cell proliferation and immunoglobulin synthesis.

**Applications Reported:** The CRM57 antibody has been reported for use in ELISA and ELISPOT.

**Applications Tested:** The CRM57 antibody has been tested as the detection antibody in a sandwich ELISA for analysis of human interleukin-1 beta (IL-1 beta) in combination with the purified CRM56 (14-7018) for capture and recombinant human IL-1 beta (14-8018) as the standard. A suitable range of concentrations of this antibody for use in ELISA detection is 0.25 -1 µg /mL. A standard curve consisting of doubling dilutions of the recombinant standard over the range of 1000 pg/mL - 8 pg/mL should be included in each ELISA plate.

**Filtration:** 0.2 µm post-manufacturing filtered.

ELISA (3)

<p><b>Scientific reports</b></p> <p><b>Inhibition of NLRP3 inflammasome activation by cell-permeable stapled peptides.</b></p> <p>"13-7016 was used in an ELISA assay to design -helical stapled peptides targeting the pyrin domain of the adaptor protein ASC to interrupt the development of its filament, which is crucial for NLRP3 inflammasome formation."</p> <p>Authors: Pal A,Neo K,Rajamani L,Ferrer FJ,Lane DP,Verma CS,Mortellaro A</p>	<p><b>Year</b> 2019</p> <p><b>Species</b> Human</p>
<p><b>FEMS immunology and medical microbiology</b></p> <p><b>Induction of cytokines in a macrophage cell line by proteins of Clostridium difficile.</b></p> <p>"13-7016 was used in an ELISA assay to assess the induction of cytokines in a macrophage cell line in response to different antigens prepared from five Clostridium difficile strains."</p> <p>Authors: Vohra P,Poxton IR</p>	<p><b>Year</b> 2012</p> <p><b>Species</b> Human</p>

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Peptide array (1)

<p><b>PloS one</b></p> <p><b>A microfluidic platform for high-throughput multiplexed protein quantitation.</b></p> <p>"13-7016 was used in Antibody array to test a novel device for quantifying biomarkers in multiple samples by immunoassay."</p> <p>Authors: Volpetti F,Garcia-Cordero J,Maerkl SJ</p>	<p><b>Year</b> 2016</p> <p><b>Species</b> Human</p>
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Miscellaneous PubMed (1)

<p><b>Biomicrofluidics</b></p> <p><b>Fiber composite slices for multiplexed immunoassays.</b></p> <p>"13-7016 was used in Immuno-assay to describe a new type of low-cost fabrication method for a scalable immunoassay platform based on cotton threads."</p> <p>Authors: Kim J,Bae S,Song S,Chung K,Kwon S</p>	<p><b>Year</b> 2015</p> <p><b>Species</b> Human</p>
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More applications with references on thermofisher.cn

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