

# IL-1 beta Monoclonal Antibody (CRM56), FITC, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	CRM56
Conjugate	FITC
Excitation/Emission Max	498/517 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10598802

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	5 Publications
Neutralization (Neu)	-	1 Publication

## Product Specific Information

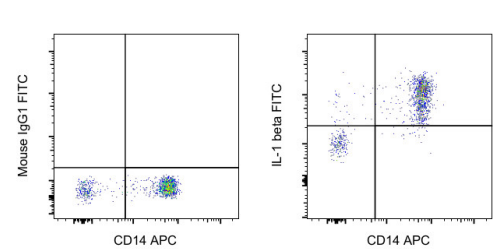
**Description:** The CRM56 antibody reacts with human and baboon interleukin-1 beta; (IL-1 beta). IL-1 beta is a 17 kDa factor secreted primarily by monocytes. IL-1 has effects on T-helper cells, inducing IL-2 secretion and expression of IL-2 receptors. IL-1 has effects on B cells, promoting cell proliferation and immunoglobulin synthesis.

**Applications Reported:** The CRM56 antibody has been reported for use in intracellular flow cytometric analysis.

**Applications Tested:** This CRM56 antibody has been pre-titrated and tested by intracellular staining and flow cytometric analysis of stimulated normal human peripheral blood cells. This can be used at 5 µL (0.125 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test.

**Excitation:** 488 nm; **Emission:** 520 nm; **Laser:** Blue Laser.

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



**IL-1 beta Antibody (11-7018-42) in Flow**  
Normal human peripheral blood cells were stimulated for 4 hours with LPS (Product # 00-4976-03) in the presence of Brefeldin A (Product # 00-4506-51). Cells were then surface stained with CD14 Monoclonal Antibody, APC (Product # 17-0149-42), followed by intracellular staining using the Intracellular Fixation & Permeabilization Buffer Set (Product # 88-8824-00) and protocol, with and Mouse IgG1 kappa Isotype Control, FITC (Product # 11-4714-82) (left) or CRM56 Monoclonal Antibody, FITC (right). Cells in the monocyte gate were used for analysis.

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6 References

Flow Cytometry (5)

<p>Archives of virology</p> <p><b>Evidence of SARS-CoV-2 infection in postmortem lung, kidney, and liver samples, revealing cellular targets involved in COVID-19 pathogenesis.</b></p> <p>"11-7018-42 was used in flow cytometry to identify the SARS-CoV-2 nucleocapsid (NC) in a variety of cells, colocalizing with mitochondrial proteins, lipid droplets (LDs), and key host proteins that have been implicated in inflammation, tissue repair, and the SARS-CoV-2 life cycle (vimentin, NLRP3, fibronectin, LC3B, DDX3X, and PPAR), pointing to vimentin and LDs as platforms involved not only in the viral life cycle but also in inflammation and pathogenesis."</p> <p>Authors: Falcón-Cama V,Montero-González T,Acosta-Medina EF,Guillen-Nieto G,Berlanga-Acosta J,Fernández-Ortega C,Alfonso-Falcón A,Gilva-Rodríguez N,López-Nocedo L,Cremata-García D,Matos-Terrero M,Pentón-Rol G,Valdés I,Oramas-Díaz L,Suarez-Batista A,Noa-Romero E,Cruz-Sui O,Sánchez D,Borrego-Díaz AI,Valdés-Carreras JE,Vizcaino A,Suárez-Alba J,Valdés-Véliz R,Bergado G,González MA,Hernandez T,Alvarez-Arzola R,Ramírez-Suárez AC,Casillas-Casanova D,Lemos-Pérez G,Blanco-Águila OR,Díaz A,González Y,Bequet-Romero M,Marín-Prida J,Hernández-Perera JC,Del Rosario-Cruz L,Marín-Díaz AP,González-Bravo M,Borrajero I,Acosta-Rivero N</p>	<p>Year 2023</p> <p>Species Human</p>
<p>Journal of extracellular vesicles</p> <p><b>Circulating LL37 targets plasma extracellular vesicles to immune cells and intensifies Behçet's disease severity.</b></p> <p>"Published figure using IL-1 beta monoclonal antibody (Product # 11-7018-42) in Flow Cytometry"</p> <p>Authors: Kahraman T,Gucluler G,Simsek I,Yagci FC,Yildirim M,Ozen C,Dinc A,Gursel M,Ikromzoda L,Sutlu T,Gay S,Gursel I</p>	<p>Year 2020</p>

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Neutralization (1)

<p>American journal of transplantation : official journal of the American Society of Transplantation and the American Society of Transplant Surgeons</p> <p><b>Differential requirement for P2X7R function in IL-17 dependent vs. IL-17 independent cellular immune responses.</b></p> <p>"Published figure using IL-1 beta monoclonal antibody (Product # 11-7018-42) in Flow Cytometry"</p> <p>Authors: Sullivan JA,Jankowska-Gan E,Shi L,Roenneburg D,Hegde S,GreenSPAN DS,Wilkes DS,Denlinger LC,Burlingham WJ</p>	<p>Year 2014</p>
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