

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	4 Publications
Neutralization (Neu)	-	1 Publication

Product Specific Information

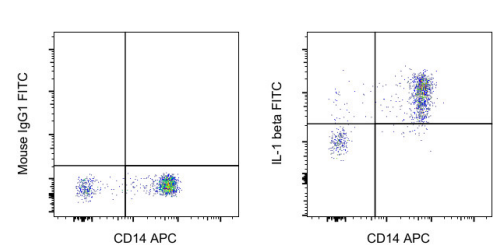
Description: The CRM56 antibody reacts with human and baboon interleukin-1 beta; (IL-1 beta). IL-1 beta is a 17 kDa factor secreted primarily by monocytes. IL-1 has effects on T-helper cells, inducing IL-2 secretion and expression of IL-2 receptors. IL-1 has effects on B cells, promoting cell proliferation 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 10⁵ to 10⁸ 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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5 References

Flow Cytometry (4)

Archives of virology Evidence of SARS-CoV-2 infection in postmortem lung, kidney, and liver samples, revealing cellular targets involved in COVID-19 pathogenesis. "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." 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	Year 2023 Species Human
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Journal of extracellular vesicles Circulating LL37 targets plasma extracellular vesicles to immune cells and intensifies Behçet's disease severity. "Published figure using IL-1 beta monoclonal antibody (Product # 11-7018-42) in Flow Cytometry" 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	Year 2020
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Neutralization (1)

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