

# IL-1 alpha Monoclonal Antibody (ALF-161), PE, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	ALF-161
Conjugate	PE
Excitation/Emission Max	565/576 nm
Form	Liquid
Concentration	0.2 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_466144

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	4 Publications

## Product Specific Information

**Description:** The ALF-161 antibody reacts with mouse interleukin-1alpha (IL-1alpha). Mouse IL-1alpha, also called Lymphocyte Activating Factor (LAF), Endogenous Pyrogen (EP), Leukocyte Endogenous Mediator (LEM), and Mononuclear Cell Factor (MCF), is a 17 kDa factor produced by a wide variety of cells, including macrophages, dendritic cells, T and B cells. IL-1alpha is mostly cell-associated, with 23% amino acid homology with IL-1beta. The immune regulatory role of IL-1alpha is exerted on a wide range of cells including lymphocytes, epithelial cells and fibroblasts. In vivo, it induces hypotension, fever, and acute phase response.

**Applications Reported:** The ALF-161 antibody has been reported for use in ELISA capture, ELISPOT capture, neutralization, and intracellular staining for flow cytometry.

**Applications Tested:** This ALF-161 antibody is offered in 2 formats:

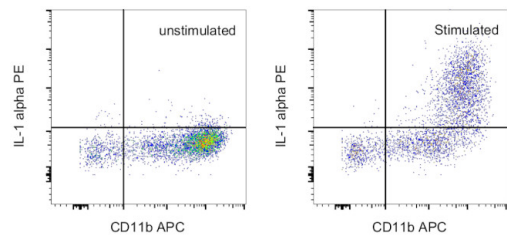
- µg size: Can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

- test size: has been pre-titrated can be used at test size: 5 µL (0.25µg) 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:** 488-561 nm; **Emission:** 578 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For IL-1 alpha Monoclonal Antibody (ALF-161), PE, eBioscience™



**IL-1 alpha Antibody (12-7011-82) in Flow**  
BALB/c mouse thioglycolate-elicited peritoneal exudate cells were unstimulated (left) or stimulated overnight with LPS in presence of Brefeldin A (Product # 00-4976-03 and Product # 00-4506-51) and IFN gamma (Product # BMS326) (right). Cells were then stained intracellularly, using the Intracellular Fixation & Permeabilization Buffer Set (Product # 88-8824-00) and protocol, with CD11b Monoclonal Antibody, APC (Product # 17-0112-82) and 0.25 µg of IL-1 alpha Monoclonal Antibody, PE. Total viable cells were used for analysis.

4 References

Flow Cytometry (4)

<p><b>PLoS neglected tropical diseases</b></p> <p><b>TLR7 controls myeloid-derived suppressor cells expansion and function in the lung of C57BL6 mice infected with Schistosoma japonicum.</b></p> <p>"12-7011-82 was used in Flow cytometry/Cell sorting to indicate that TLR7 signaling inhibits the accumulation and function of MDSCs in S. japonicum infected mouse lung by down-regulating the expression of PD-L1/2 and secreting of IL-10, via NF-B signaling."</p> <p>Authors: Zhou L,Zhu Y,Mo L,Wang M,Lin J,Zhao Y,Feng Y,Xie A,Wei H,Qiu H,Huang J,Yang Q</p>	<p><b>Year</b> 2022</p> <p><b>Species</b> Mouse</p>
<p><b>Cell host &amp; microbe</b></p> <p><b>Legionella-Infected Macrophages Engage the Alveolar Epithelium to Metabolically Reprogram Myeloid Cells and Promote Antibacterial Inflammation.</b></p> <p>"12-7011-82 was used in Flow Cytometry to reveal that alveolar macrophages engage alveolar epithelial signals to metabolically reprogram monocytes for antibacterial inflammation."</p> <p>Authors: Liu X,Boyer MA,Holmgren AM,Shin S</p>	<p><b>Year</b> 2020</p> <p><b>Species</b> Mouse</p>

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

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