

For Research Use Only

# FcZero-rAb® Biotin Anti-Mouse IL-6 Rabbit Recombinant Antibody

Catalog Number: Biotin-FcA98089



## Basic Information

Catalog Number:

Biotin-FcA98089

Size:

100ug, 500 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG0973

GenBank Accession Number:

NM\_031168

GeneID (NCBI):

16193

UNIPROT ID:

P08505

Full Name:

interleukin 6

Calculated MW:

24 kDa

Purification Method:

Protein A purification

CloneNo.:

240701E8

Recommended Dilutions:

FC (Intra): 0.25 ug per 10<sup>6</sup> cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:

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## Applications

Tested Applications:

FC (Intra)

Species Specificity:

mouse

Positive Controls:

FC (Intra): LPS treated RAW 264.7 cells,

## Background Information

Interleukin-6 (IL-6) is an interleukin that acts as both a pro-inflammatory and anti-inflammatory cytokine. IL-6 protein is secreted by a variety of cell types including T cells and macrophages as phosphorylated and variably glycosylated molecule. IL-6 plays an essential role in the final differentiation of B-cells into Ig-secreting cells involved in lymphocyte and monocyte differentiation. It induces myeloma and plasmacytoma growth and induces nerve cells differentiation Acts on B-cells, T-cells, hepatocytes, hematopoietic progenitor cells and cells of the CNS. IL-6 is also considered a myokine, a cytokine produced from muscle, and is elevated in response to muscle contraction. IL-6 has been shown to interact with interleukin-6 receptor and glycoprotein 130. Additionally, IL-6 is involved in hematopoiesis, bone metabolism, and cancer progression, and has been defined an essential role in directing transition from innate to acquired immunity.

## Storage

Storage:

Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide, pH7.3

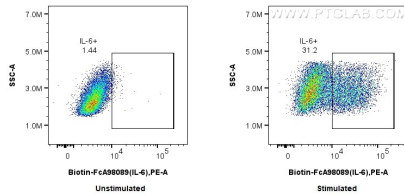
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

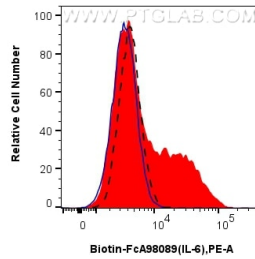
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## Selected Validation Data



1x10<sup>6</sup> untreated or LPS treated RAW 264.7 cells were intracellularly stained with 0.25 ug Biotin Anti-Mouse IL-6 Rabbit RecAb (Biotin-FcA98089, Clone: 240701E8) and Streptavidin-PE Conjugate (PE-PF00030). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit (PF00019).



1x10<sup>6</sup> LPS treated RAW 264.7 cells were intracellularly stained with 0.25 ug Biotin Anti-Mouse IL-6 Rabbit RecAb (Biotin-FcA98089, Clone: 240701E8) (red) or FcZero-rAb™ Biotin Rabbit IgG Isotype Control Recombinant Antibody (Biotin-FcA98136, Clone: 240953C9) (blue). 1x10<sup>6</sup> untreated RAW 264.7 cells were intracellularly stained with 0.25 ug Biotin Anti-Mouse IL-6 Rabbit RecAb (Biotin-FcA98089, Clone: 240701E8) (black, dashed) and Streptavidin-PE

