

For Research Use Only

# CoraLite® Plus 405 Anti-Human IL-1 beta (2A7C6)

Catalog Number: CL405-65276



## Basic Information

Catalog Number:

CL405-65276

Size:

100ug, 0.2 mg/mL

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

HZ-1164

GenBank Accession Number:

BC008678

GeneID (NCBI):

3553

ENSEMBL Gene ID:

ENSG00000125538

Full Name:

interleukin 1, beta

Calculated MW:

269 aa, 31 kDa

Purification Method:

Affinity purification

CloneNo.:

2A7C6

Excitation/Emission maxima wavelengths:

399 nm / 422 nm

## Applications

Tested Applications:

FC (Intra)

Species Specificity:

human

## Background Information

Interleukin-1 is a pro-inflammatory cytokine with multiple biological effects. The IL-1 gene family encodes three proteins: IL-1 $\alpha$ , IL-1 $\beta$  and their naturally occurring inhibitor IL-1RN. Interleukin 1 $\beta$  (IL-1 $\beta$ ), mainly produced by blood monocytes and tissue macrophages, has been implicated in mediating both acute and chronic inflammation. IL-1 $\beta$  is known to be involved in a variety of cellular activities, including cell proliferation, differentiation and apoptosis. IL-1 $\beta$  is emerging as a key mediator of carcinogenesis that characterizes host-environment interactions. (PMID: 8630372; 12401481; 23704929; 24618930)

## 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 and 0.5% BSA.

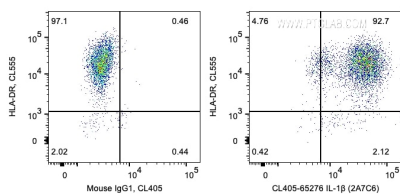
For technical support and original validation data for this product please contact:

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

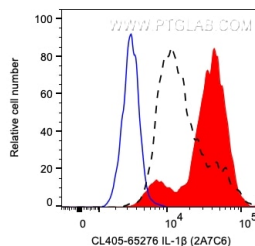
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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## Selected Validation Data



1X10<sup>6</sup> LPS and Brefeldin A treated human PBMCs were surface stained with CL555 Anti-Human HLA-DR then intracellularly stained with 0.2 ug CoraLite® Plus 405 Anti-Human IL-1β (CL405-65276, Clone:2A7C6), or Mouse IgG1 Isotype Control. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). Monocytes were gated.



1X10<sup>6</sup> LPS and Brefeldin A treated human PBMCs were intracellularly stained with 0.2 ug CoraLite® Plus 405 Anti-Human IL-1β (CL405-65276, Clone:2A7C6) (red) or Mouse IgG1 Isotype Control (blue), or unactivated and Brefeldin A treated human PBMCs were intracellularly stained with 0.2 ug CoraLite® Plus 405 Anti-Human IL-1β (CL405-65276, Clone:2A7C6) (black, dashed line). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).

