

# Anti-Mouse IL-1 alpha Rabbit Recombinant Antibody

Catalog Number: 98052-1-RR

## Basic Information

<b>Catalog Number:</b> 98052-1-RR	<b>GenBank Accession Number:</b> NM_010554	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, 1000 µg/ml	<b>GeneID (NCBI):</b> 16175	<b>CloneNo.:</b> 240431G10
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P01582	
<b>Isotype:</b> IgG	<b>Full Name:</b> interleukin 1 alpha	
	<b>Calculated MW:</b> 31kd	

## Applications

**Tested Applications:**  
FC (Intra)

**Species Specificity:**  
mouse

## Background Information

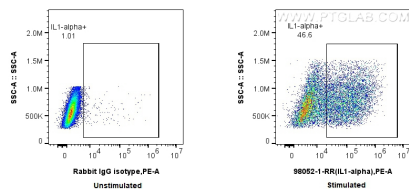
IL-1 alpha is a dual function cytokine that can function both as a transcription factor and a damage-associated molecular pattern (DAMP) in innate immune responses. It is expressed by many cell types and its expression is increased when cells are exposed to growth factors, pro-inflammatory, and stress-related signals. In its pro-form, IL-1 alpha contains a nuclear localization signal that allows it to translocate to the nucleus and bind to DNA, resulting in either the increase or prohibition of pro-inflammatory cytokine expression. When cells are exposed to necrotic signals, mature IL-1 alpha is released from the cell lysates and triggers a strong pro-inflammatory response upon binding to its receptor on nearby cells. Due to its strongly pro-inflammatory nature, IL-1 alpha has been linked to tumor metastasis and lower median survival in several cancers (PMID: 27434011, 29247995).

## Storage

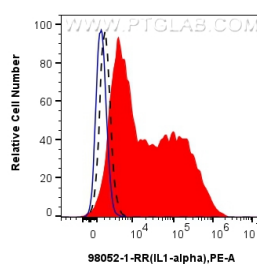
**Storage:**  
Store at 2-8°C. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 0.09% sodium azide, pH 7.3.

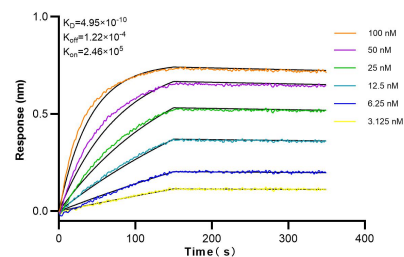
## Selected Validation Data



1x10<sup>6</sup> LPS treated RAW 264.7 cells were intracellularly stained with 0.25 ug Anti-Mouse IL1-alpha Rabbit Recombinant Antibody (98052-1-RR, Clone:240431G10) and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), or 0.25 ug Isotype Control and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



1x10<sup>6</sup> LPS treated (red) or untreated (black) RAW 264.7 cells were intracellularly stained with 0.25 ug Anti-Mouse IL1-alpha Rabbit Recombinant Antibody (98052-1-RR, Clone: 240431G10) and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Biolayer interferometry (BLI) kinetic assays of 98052-1-RR against Mouse IL-1 alpha were performed. The affinity constant is 0.495 nM.