

For Research Use Only

Anti-Mouse IL-1 alpha Rabbit Recombinant Antibody



Catalog Number: 98052-1-RR

Basic Information

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

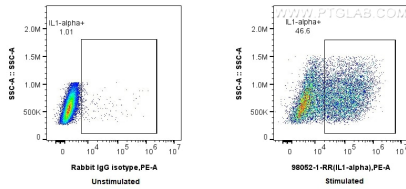
For technical support and original validation data for this product please contact:

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

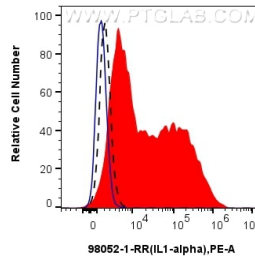
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W: ptglab.com

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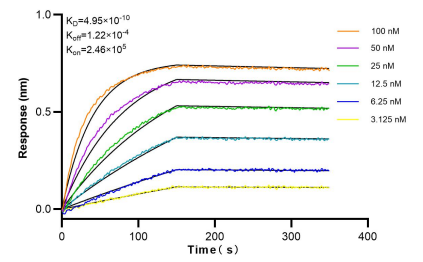
Selected Validation Data



1×10^6 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).



1×10^6 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).



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