

For Research Use Only

# Anti-Rat IL-1 alpha Rabbit Recombinant Antibody, PBS Only

Catalog Number: 98732-2-PBS



## Basic Information

<b>Catalog Number:</b> 98732-2-PBS	<b>GenBank Accession Number:</b> NM_017019.1	<b>Purification Method:</b> Protein A purification
<b>Concentration:</b> 1mg, 3 mg/ml	<b>GeneID (NCBI):</b> 24493	<b>CloneNo.:</b> 251278D7
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P16598	
<b>Isotype:</b> IgG	<b>Full Name:</b> interleukin 1 alpha	
<b>Immunogen Catalog Number:</b> EG4641	<b>Calculated MW:</b> 31kDa	

## Applications

**Tested Applications:**  
FC (Intra)

**Species Specificity:**  
rat

## 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 -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**  
**Storage Buffer:**  
PBS only, pH7.3

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

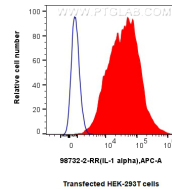
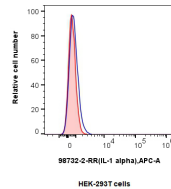
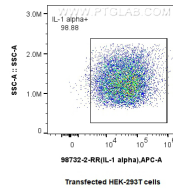
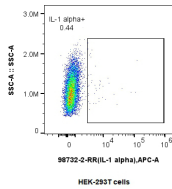
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



1x10<sup>6</sup> HEK-293T cells or IL-1 alpha transfected HEK-293T cells were stained with 0.25 ug Anti-Rat IL-1 alpha Rabbit RecAb (98732-2-RR, Clone: 251278D7) and APC-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00017). This data was developed using the same antibody clone with 98732-2-PBS in a different storage buffer formulation.

1x10<sup>6</sup> HEK-293T cells or IL-1 alpha transfected HEK-293T cells were stained with 0.25 ug Anti-Rat IL-1 alpha Rabbit RecAb (98732-2-RR, Clone: 251278D7) (red) or 0.25 ug Isotype Control (blue), and APC-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00017). This data was developed using the same antibody clone with 98732-2-PBS in a different storage buffer formulation.