

For Research Use Only

Anti-Rat IL-1 alpha Rabbit Recombinant Antibody

Catalog Number: 98732-2-RR



Basic Information

Catalog Number:

98732-2-RR

Concentration:

100ug, 1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG4641

GenBank Accession Number:

NM_017019.1

GeneID (NCBI):

24493

UNIPROT ID:

P16598

Full Name:

interleukin 1 alpha

Calculated MW:

31kDa

Purification Method:

Protein A purification

CloneNo.:

251278D7

Recommended Dilutions:

FC (Intra): 0.25 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

FC (Intra)

Species Specificity:

rat

Positive Controls:

FC (Intra) : Transfected HEK-293T cells,

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, pH7.3

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

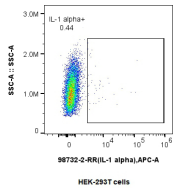
T: 4006900926

E: Proteintech-CN@ptglab.com

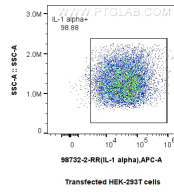
W: ptgcn.com

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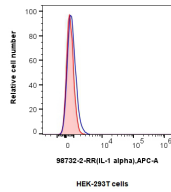
Selected Validation Data



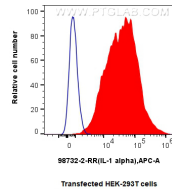
HEK-293T cells



Transfected HEK-293T cells



HEK-293T cells



Transfected HEK-293T cells

1x10⁶ 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).

1x10⁶ 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).