

For Research Use Only

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

Catalog Number: 98732-2-PBS



Basic Information

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

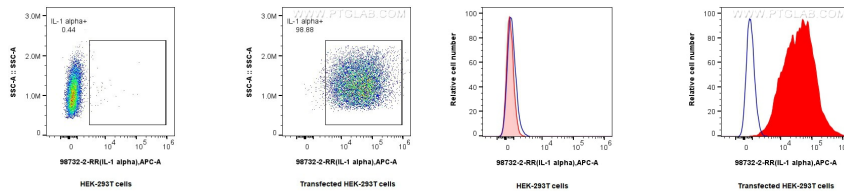
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

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) E: proteintech@ptglab.com W: ptglab.com

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Selected Validation Data



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). This data was developed using the same antibody clone with 98732-2-PBS in a different storage buffer formulation.

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). This data was developed using the same antibody clone with 98732-2-PBS in a different storage buffer formulation.