

For Research Use Only

# PE Anti-Human IGF1 Rabbit Recombinant Antibody

Catalog Number: PE-98889-3



## Basic Information

Catalog Number:

PE-98889-3

Concentration:

100 tests, 5 µl/test

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG1806

GenBank Accession Number:

NM\_001111285.2

GeneID (NCBI):

3479

UNIPROT ID:

P05019-1

Full Name:

insulin-like growth factor 1  
(somatomedin C)

Calculated MW:

22 kDa

Purification Method:

Protein A purification

CloneNo.:

252943B2

Recommended Dilutions:

FC (Intra): 5 µl per 10<sup>6</sup> cells in a 100 µl suspension

Excitation/Emission maxima  
wavelengths:

496 nm, 565 nm / 578 nm

## Applications

Tested Applications:

FC (Intra)

Species Specificity:

human

Positive Controls:

FC (Intra) : A549 cells,

## Background Information

The Insulin like growth factor-1, also known as Somatomedin-C is a growth factor which is structurally related to insulin and is an important regulator of growth and differentiation in various tissues and cell systems. Human IGF-1 is synthesized as two precursor isoforms with N- and alternate C-terminal propeptide. The two precursor isoforms are differentially expressed by various tissues. The proteolytic cleavage of the N- and C-terminal regions results in the mature IGF-1 protein which is identical between isoforms. IGF-1 binds to IGF-1 receptor and induces receptor autophosphorylation. This further phosphorylates Insulin receptor substrate -1 (IRS-1) and activates various downstream signaling pathways including the PI3-AKT, MAPK etc. (PMID: 17354613, 17113337, 29535161)

## Storage

Storage:

Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide and 0.5% BSA, pH7.3

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

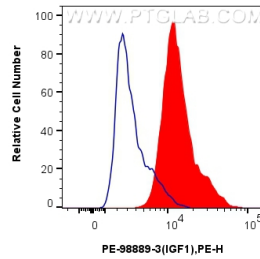
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W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



1x10<sup>6</sup> A549 cells were intracellularly stained with 5 ul PE Anti-Human IGF1 Rabbit RecAb (PE-98889-3, Clone: 252943B2) (red) or PE Rabbit IgG Isotype Control Recombinant Antibody (PE-98136, Clone: 240953C9) (blue). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit (PF00019).