

For Research Use Only

Anti-Human IGF1 Rabbit Recombinant Antibody, PBS Only

Catalog Number: 98889-3-PBS



Basic Information

Catalog Number:

98889-3-PBS

Size:

1mg, 3 mg/ml

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

Applications

Tested Applications:

IHC, FC (Intra)

Species Specificity:

human

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 -80°C.

Storage Buffer:

PBS only, pH7.3

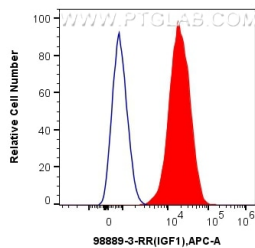
For technical support and original validation data for this product please contact:

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

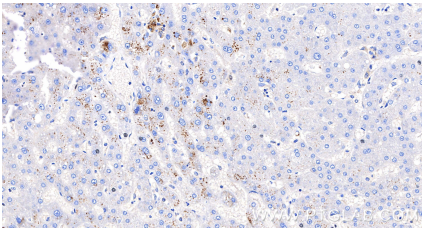
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

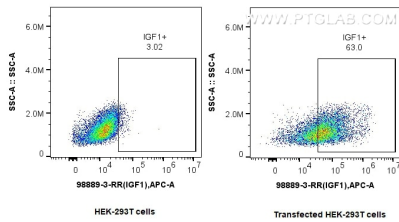
Selected Validation Data



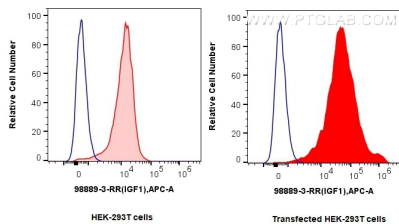
1x10⁶ A549 cells were intracellularly stained with 0.25 ug Anti-Human IGF1 Rabbit RecAb (98889-3-RR, Clone: 252943B2) (red) or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue), and CoraLite647-conjugated F(ab')₂ Fragment Donkey Anti-Rabbit IgG (H+L) (SA00014-7). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit (PF00019). This



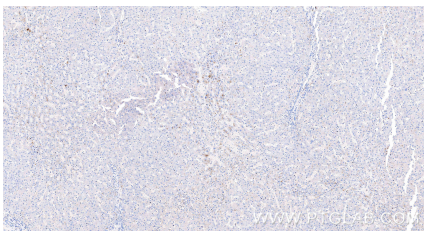
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 98889-3-RR (IGF1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 98889-3-PBS in a different storage buffer formulation.



1x10⁶ HEK-293T cells and IGF1 Transfected HEK-293T cells were intracellularly stained with 0.25 ug Anti-Human IGF1 Rabbit RecAb (98889-3-RR, Clone: 252943B2) and CoraLite647-conjugated F(ab')₂ Fragment Donkey Anti-Rabbit IgG (H+L) (SA00014-7). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit (PF00019). This data was developed using the same antibody clone with 98889-3-PBS in a



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Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 98889-3-RR (IGF1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 98889-3-PBS in a different storage buffer formulation.