

For Research Use Only

Anti-Human IGF1 Rabbit Recombinant Antibody

Catalog Number: 98889-3-RR



Basic Information

Catalog Number: 98889-3-RR	GenBank Accession Number: NM_001111285.2	Purification Method: Protein A purification
Size: 100ug , 1000 µg/ml	GeneID (NCBI): 3479	CloneNo.: 252943B2
Source: Rabbit	UNIPROT ID: P05019-1	Recommended Dilutions: IHC: 1:250-1:1000 FC (Intra): 0.25 ug per 10 ⁶ cells in a 100 µl suspension
Isotype: IgG	Full Name: insulin-like growth factor 1 (somatomedin C)	
Immunogen Catalog Number: EG1806	Calculated MW: 22 kDa	

Applications

Tested Applications: IHC, FC (Intra)	Positive Controls:
Species Specificity: human	IHC : human liver tissue, FC (Intra) : A549 cells, Transfected HEK-293T cells
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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)

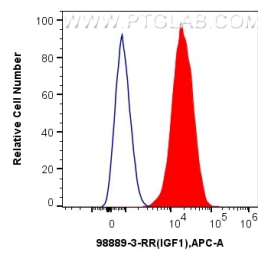
Storage

Storage:
Store at 2 - 8°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.09% sodium azide, pH7.3

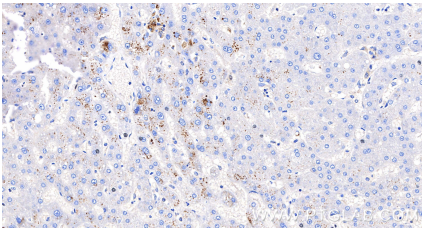
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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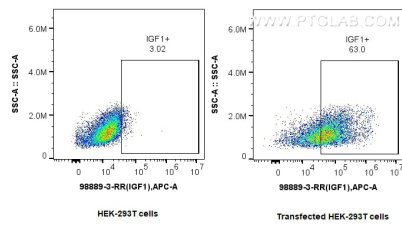
Selected Validation Data



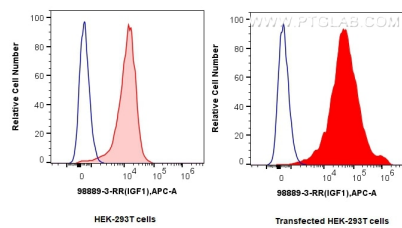
1x10⁶ A549 cells were intracellularly stained with 0.25 ug Anti-Human IGF1 Rabbit RecAb (98889-3-RR, Clone: 252943B2) (red) or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue), and CoraLite647-conjugated F(ab')₂ Fragment Donkey Anti-Rabbit IgG (H+L) (SA00014-7).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



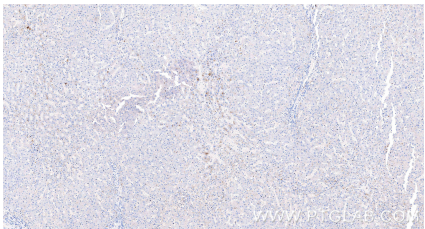
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 98889-3-RR (IGF1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



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) (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



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).