

IGF1 Recombinant monoclonal antibody

Catalog Number: 84782-5-RR

Basic Information

Catalog Number: 84782-5-RR	GenBank Accession Number: AAA41386	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 24482	CloneNo.: 241890G6
Isotype: IgG	UNIPROT ID: P08025	Recommended Dilutions: WB: 1:5000-1:50000 IHC: 1:200-1:800 FC (Intra): 0.25 ug per 10 ⁶ cells in a 100 µl suspension
Immunogen Catalog Number: EG1976	Full Name: insulin-like growth factor 1	
	Calculated MW: 14kd	
	Observed MW: 12 kDa	

Applications

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

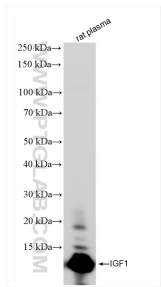
Background Information

IGF1, also named as IBP1, MGF, IGF-IA, and Somatomedin-C, belongs to the INS family. IGF1 is structurally and functionally related to INS but has a much higher growth-promoting activity. Altered expression or mutation of IGF-1 is associated with several human disorders, including type I diabetes and various forms of cancer. Defects in IGF1 are the cause of INS-like growth factor I deficiency (IGF1 deficiency) which is an autosomal recessive disorder characterized by growth retardation, sensorineural deafness, and mental retardation.

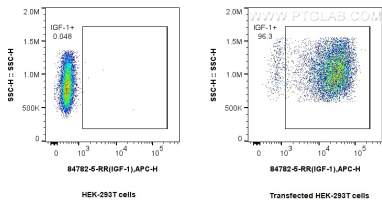
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

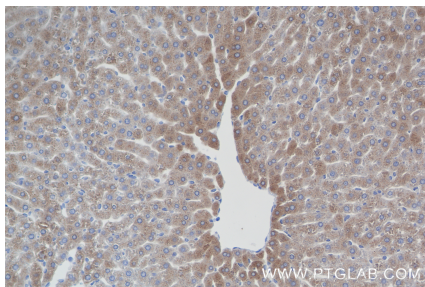
Selected Validation Data



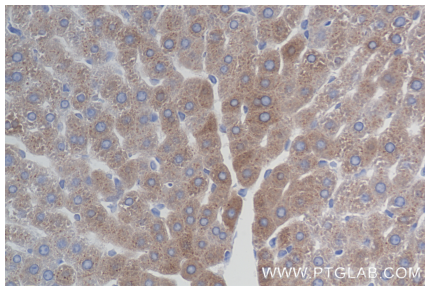
rat plasma were subjected to SDS PAGE followed by western blot with 84782-5-RR (IGF-1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



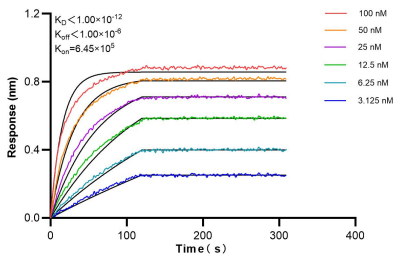
1x10⁶ HEK-293T cells or IGF1 Transfected HEK-293T cells were intracellularly stained with 0.25 ug IGF1 Recombinant antibody (84782-5-RR, Clone:241890G6) and Multi-rAb CoraLite® Plus 647-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR005). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.



Immunohistochemical analysis of paraffin-embedded rat liver tissue slide using 84782-5-RR (IGF1 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat liver tissue slide using 84782-5-RR (IGF1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 84782-5-RR against Rat IGF1 were performed. The affinity constant is below 1 pM.