

For Research Use Only

IGFBP4 Recombinant antibody

Catalog Number: 83200-3-RR



Basic Information

Catalog Number: 83200-3-RR	GenBank Accession Number: NM_001552.3	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 3487	CloneNo.: 230543F8
Source: Rabbit	UNIPROT ID: P22692-1	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:50-1:500
Isotype: IgG	Full Name: insulin-like growth factor binding protein 4	
	Calculated MW: 28 kDa	
	Observed MW: 28-40 kDa	

Applications

Tested Applications: WB, IHC, FC (Intra), ELISA	Positive Controls:
Species Specificity: human	WB : MDA-MB-231 cells, K-562 cells
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : human intrahepatic cholangiocarcinoma tissue,

Background Information

IGFBP4, also named as IBP4, is a 258 amino acid protein, which contains one IGFBP N-terminal domain and one thyroglobulin type-1 domain. IGFBP4 is the smallest member of the insulin-like growth factor binding protein family (IGFBP). It is a hepatic protein that plays a role in modulating the activity and bioavailability of IGF-I. The expression of IGFBP4 was found to increase under conditions of hypoxia. IGFBP4 is highly expressed in adipocytes and osteoblasts and is inhibitory of IGFs in vitro. (PMID: 28938423, PMID: 34646401).

Storage

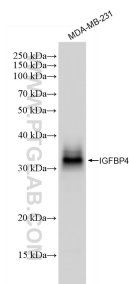
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

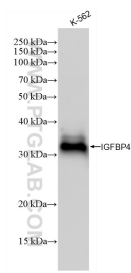
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

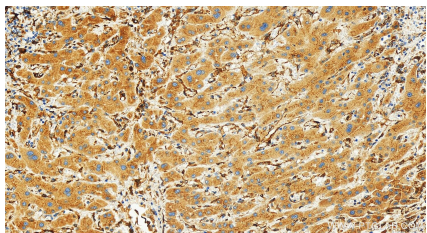
Selected Validation Data



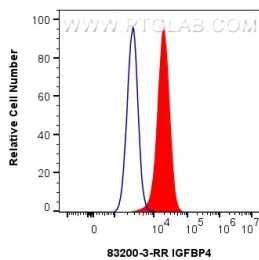
Various lysates were subjected to SDS PAGE followed by western blot with 83200-3-RR (IGFBP4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



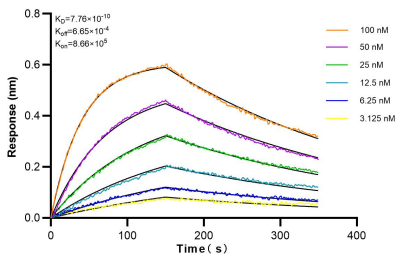
Various lysates were subjected to SDS PAGE followed by western blot with 83200-3-RR (IGFBP4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human intrahepatic cholangiocarcinoma tissue slide using 83200-3-RR (IGFBP4 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10⁶ A549 cells were intracellularly stained with 0.4 ug IGFBP4 Recombinant antibody (83200-3-RR, Clone:230543F8) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 83200-3-RR against Human IGFBP4 were performed. The affinity constant is 0.776 nM.