

For Research Use Only

IGFBP4 Polyclonal antibody

Catalog Number: 18500-1-AP

Featured Product

9 Publications



Basic Information

Catalog Number:

18500-1-AP

Size:

150ul, Concentration: 400 ug/ml by Nanodrop and 300 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG13347

GenBank Accession Number:

BC016041

GeneID (NCBI):

3487

UNIPROT ID:

P22692

Full Name:

insulin-like growth factor binding protein 4

Calculated MW:

28 kDa

Observed MW:

28-40 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:3000

IHC 1:50-1:500

IF/ICC 1:10-1:100

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, rat

Cited Species:

human, rat, chicken

Positive Controls:

WB : C6 cells,

IHC : human liver tissue, human colon tissue

IF/ICC : C6 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

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). IGFBP4 is a secreted protein and calculated molecular weight is 28 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Wenwen Guo	34888242	Front Oncol	IHC
Cynthia Hajal	34162553	Sci Adv	IF
Jie Yang	28734787	Cell Signal	WB

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

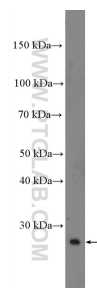
For technical support and original validation data for this product please contact:

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

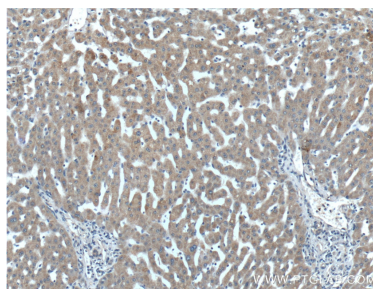
E: proteintech@ptglab.com
W: ptglab.com

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

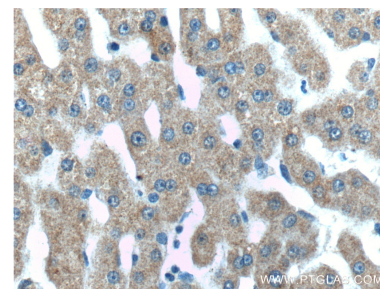
Selected Validation Data



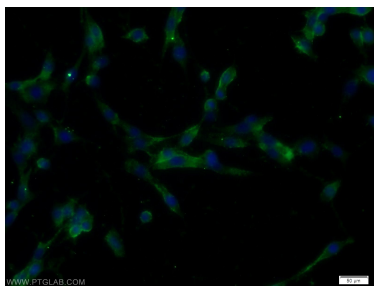
C6 cells were subjected to SDS PAGE followed by western blot with 18500-1-AP (IGFBP4 Antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 18500-1-AP (IGFBP4 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 18500-1-AP (IGFBP4 Antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of C6 cells using 18500-1-AP (IGFBP4 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).