

For Research Use Only

GGCX Polyclonal antibody

Catalog Number:16209-1-AP

Featured Product

9 Publications



Basic Information

Catalog Number:

16209-1-AP

Size:

150ul , Concentration: 240 ug/ml by Nanodrop and 213 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG9185

GenBank Accession Number:

BC013979

GeneID (NCBI):

2677

UNIPROT ID:

P38435

Full Name:

gamma-glutamyl carboxylase

Calculated MW:

758 aa, 88 kDa

Observed MW:

88 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

Applications

Tested Applications:

WB, IP, IHC, ELISA

Cited Applications:

WB, IF, IP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : MCF7 cells, HEK-293 cells, HepG2 cells, L02 cells, MCF-7 cells, mouse liver tissue, PC-3 cells

IP : mouse liver tissue,

IHC : human liver tissue, human brain tissue

Background Information

GGCX(Gamma-glutamyl carboxylase) is also named as GC and belongs to the vitamin K-dependent gamma-carboxylase family. This 94 kDa (including all modifications, such as the five N-linked glycosylations), is a 5-pass transmembrane protein and a key regulator of blood coagulation(PMID:20518534). It mediates the vitamin K-dependent carboxylation of glutamate residues to calcium-binding gamma-carboxylglutamate (Gla) residues with the concomitant conversion of the reduced hydroquinone form of vitamin K to vitamin K epoxide. Defects in GGCX are a cause of combined deficiency of vitamin K-dependent clotting factors type 1 (VKCFD1) and pseudoxanthoma elasticum-like disorder with multiple coagulation factor deficiency (PXEL-MCFD)(PMID:9845520;17110937).

Notable Publications

Author	Pubmed ID	Journal	Application
J-K Tie	28065270	Methods Enzymol	WB
Sarah Beaudin	31040920	Oncotarget	WB
Mathieu Ferron	25753038	J Cell Biol	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

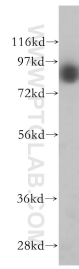
For technical support and original validation data for this product please contact:

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

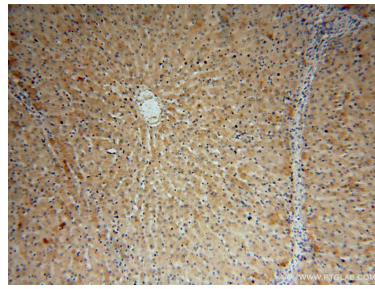
E: proteintech@ptglab.com
W: ptglab.com

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

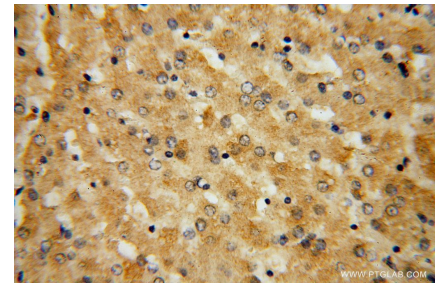
Selected Validation Data



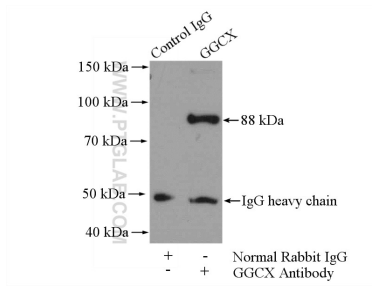
MCF7 cells were subjected to SDS PAGE followed by western blot with 16209-1-AP (GGCX antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver using 16209-1-AP (GGCX antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver using 16209-1-AP (GGCX antibody) at dilution of 1:100 (under 40x lens).



IP result of anti-GGCX (IP:16209-1-AP, 4ug; Detection:16209-1-AP 1:2000) with mouse liver tissue lysate 4000ug.