

For Research Use Only

GCLM Polyclonal antibody

Catalog Number: 14241-1-AP

Featured Product

120 Publications



Basic Information

Catalog Number: 14241-1-AP	GenBank Accession Number: BC041809	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 450 µg/ml by Nanodrop;	GeneID (NCBI): 2730	Recommended Dilutions: WB 1:2000-1:10000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
Source: Rabbit	Full Name: glutamate-cysteine ligase, modifier subunit	IHC 1:400-1:1600 IF 1:50-1:500
Isotype: IgG	Calculated MW: 31 kDa	
Immunogen Catalog Number: AG5497	Observed MW: 31 kDa	

Applications

Tested Applications: FC, IF, IHC, IP, WB, ELISA	Positive Controls:
Cited Applications: IF, IHC, WB	WB : A431 cells, HeLa cells, L02 cells, mouse liver tissue, rat liver tissue, HepG2 cells
Species Specificity: human, mouse, rat	IP : A431 cells,
Cited Species: human, goat, rat, mouse	IHC : human liver cancer tissue, human skeletal muscle tissue
	IF : HepG2 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

GCLM(Glutamate--cysteine ligase regulatory subunit) is also named as GLCLR and belongs to the aldo/keto reductase family. It catalyzes the first step of GSH synthesis and is involved in gamma-glutamyl cycle. GCLM is implicated in some forms of hemolytic anemia.

Notable Publications

Author	Pubmed ID	Journal	Application
Lin-Tao Xu	34601084	J Ethnopharmacol	WB
Jiawen Zheng	31569771	Mar Drugs	WB
Jie Deng	34565300	Bioengineered	WB

Storage

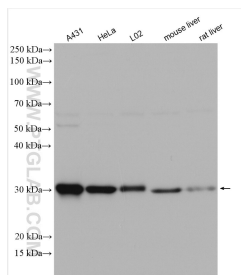
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

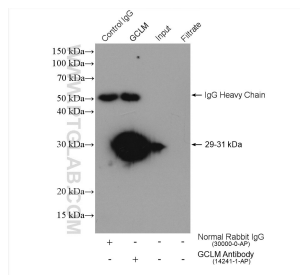
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

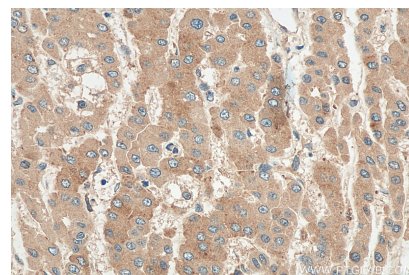
Selected Validation Data



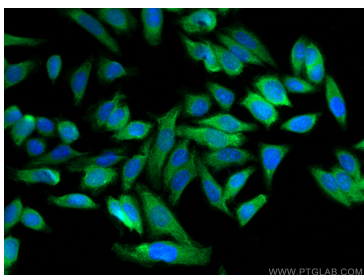
Various lysates were subjected to SDS PAGE followed by western blot with 14241-1-AP (GCLM antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



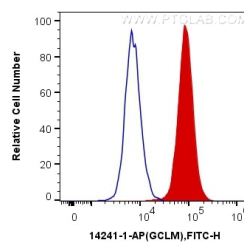
IP result of anti-GCLM(IP:14241-1-AP, 4ug; Detection:14241-1-AP 1:2000) with A431 cells lysate 1000 ug.



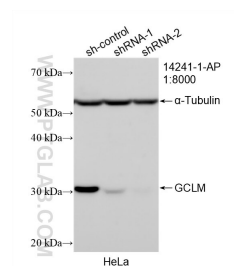
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 14241-1-AP (GCLM antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using GCLM antibody (14241-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10⁶ HepG2 cells were intracellularly stained with 0.4 ug Anti-Human GCLM (14241-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug x. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



WB result of GCLM antibody (14241-1-AP; 1:8000; incubated at room temperature for 1.5 hours) with sh-Control and sh-GCLM transfected HeLa cells.