

For Research Use Only

Cystatin C Polyclonal antibody

Catalog Number: 12245-1-AP **29 Publications**



Basic Information

Catalog Number: 12245-1-AP	GenBank Accession Number: BC013083	Purification Method: Antigen affinity purification
Size: 900 µg/ml	GeneID (NCBI): 1471	Recommended Dilutions: WB 1:2000-1:16000
Source: Rabbit	UNIPROT ID: P01034	IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate
Isotype: IgG	Full Name: cystatin C	IHC 1:50-1:500
Immunogen Catalog Number: AG2890	Calculated MW: 146 aa, 16 kDa	IF 1:20-1:200
	Observed MW: 13 kDa	

Applications

Tested Applications: IF/ICC, IHC, IP, WB, ELISA	Positive Controls:
Cited Applications: IF, IHC, WB	WB: Caco-2 cells, HepG2 cells, human milk, human brain tissue, fetal human brain tissue, human serum, Human urine, mouse brain tissue, HeLa cells, U-87 MG cells, U2OS cells
Species Specificity: human, mouse	IP: Caco-2 cells,
Cited Species: human, rat, mouse, pig	IHC: human kidney tissue, human ovary tissue, mouse kidney tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IF: HeLa cells,

Background Information

Cystatin C is a 13-kDa inhibitor of cysteine proteinases which is secreted by all cell types and is completely cleared from the organism through glomerular filtration, shown to be an early and sensitive biomarker of renal dysfunction. It is also used as an emerging biomarker in cardiovascular disease. Cystatin C is involved in a variety of inflammatory reactions. The concentration of serum cystatin C has also been shown to be unaltered in certain inflammatory conditions or other disorders of metabolism. The plasma level of serum cystatin C can be expressed as its level of generation from cells and diet and its subsequent elimination through the gut, liver, and kidneys.

Notable Publications

Author	Pubmed ID	Journal	Application
Yan Yan	26617717	Int J Clin Exp Pathol	IHC
Xiao-Lin Jiang	36309912	Aging (Albany NY)	WB
He Tai	36279396	Aging (Albany NY)	WB

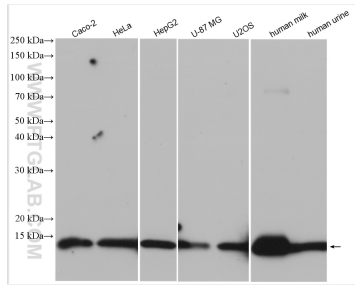
Storage

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

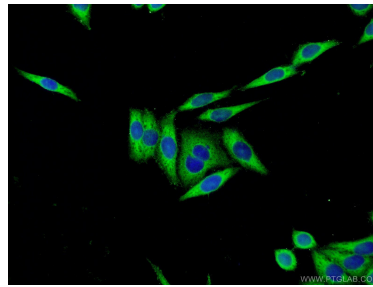
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

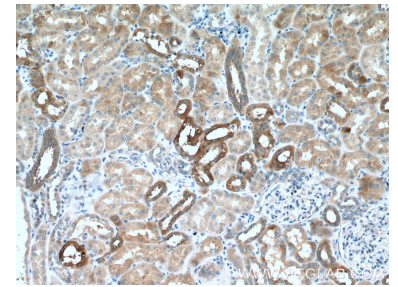
Selected Validation Data



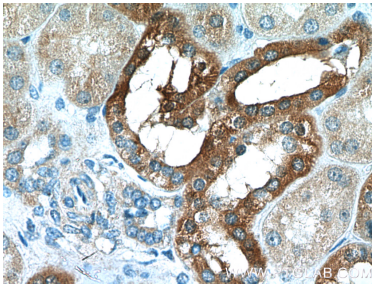
Various lysates were subjected to SDS PAGE followed by western blot with 12245-1-AP (Cystatin C antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



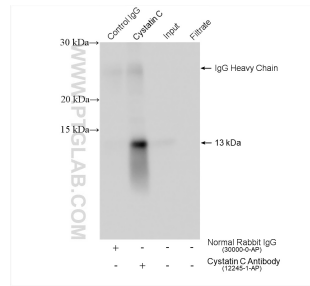
Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 12245-1-AP (Cystatin C antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 12245-1-AP (Cystatin C Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 12245-1-AP (Cystatin C Antibody) at dilution of 1:200 (under 40x lens).



IP result of anti-Cystatin C (IP:12245-1-AP, 4ug; Detection:12245-1-AP 1:1000) with Caco-2 cells lysate 1920 ug.