

For Research Use Only

Cystatin C Polyclonal antibody

Catalog Number: 12245-1-AP

Featured Product

37 Publications



Basic Information

Catalog Number:

12245-1-AP

Size:

150ul, Concentration: 900 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2890

GenBank Accession Number:

BC013083

GeneID (NCBI):

1471

UNIPROT ID:

P01034

Full Name:

cystatin C

Calculated MW:

146 aa, 16 kDa

Observed MW:

13 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:16000

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

IHC 1:50-1:500

IF-P 1:50-1:500

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IF-P, IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat, pig, duck

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: Caco-2 cells, human brain tissue, fetal human brain tissue, human milk, HepG2 cells, mouse brain tissue, HeLa cells, U-87 MG cells, U2OS cells, human urine, human serum

IP: Caco-2 cells,

IHC: human kidney tissue, human ovary tissue, mouse kidney tissue, human ovary cancer tissue

IF-P: mouse kidney tissue,

IF/ICC: 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

***** 20ul sizes contain 0.1%BSA**

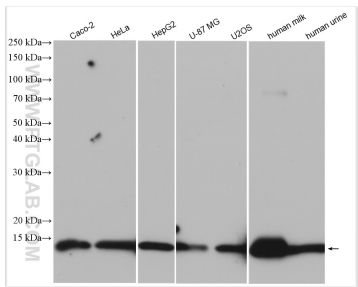
For technical support and original validation data for this product please contact:

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

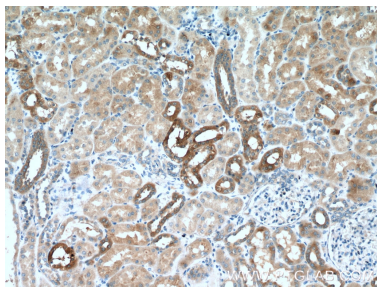
E: proteintech@ptglab.com
W: ptglab.com

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

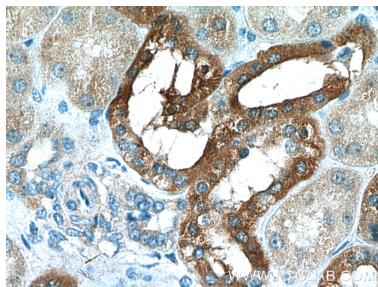
Selected Validation Data



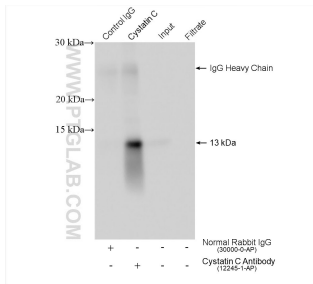
Various lysates were subjected to SDS PAGE followed by western blot with 12245-1-AP (Cystatin C antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



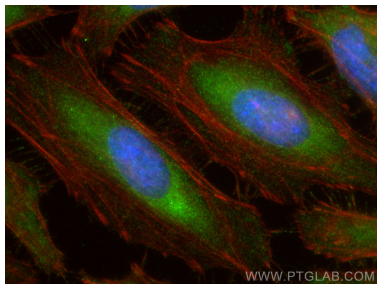
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 12245-1-AP (Cystatin C Antibody) at dilution of 1:200 (under 10x lens).



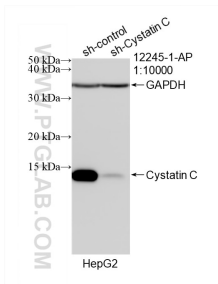
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 12245-1-AP (Cystatin C Antibody) at dilution of 1:200 (under 40x lens).



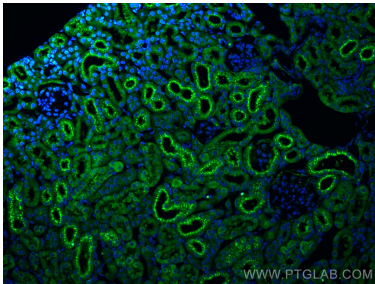
IP result of anti-Cystatin C (IP:12245-1-AP, 4ug; Detection:12245-1-AP 1:1000) with Caco-2 cells lysate 1920 ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using Cystatin C antibody (12245-1-AP) at dilution of 1:200 and Multi-rAb Coralite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).



WB result of Cystatin C antibody (12245-1-AP; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Cystatin C transfected HepG2 cells.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse kidney tissue using Cystatin C antibody (12245-1-AP) at dilution of 1:200 and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).