

For Research Use Only

# Cystatin C Recombinant antibody

Catalog Number: 82441-1-RR

Featured Product



## Basic Information

Catalog Number:

82441-1-RR

Size:

100ul, Concentration: 750 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:

Protein A purification

CloneNo.:

1120

Recommended Dilutions:

WB 1:2000-1:15000

IHC 1:150-1:600

## Applications

Tested Applications:

WB, IHC, ELISA

Species Specificity:

Human

**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 : HepG2 cells, human milk, human urine

IHC : human kidney tissue,

## 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.

## 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

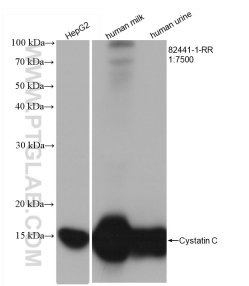
For technical support and original validation data for this product please contact:

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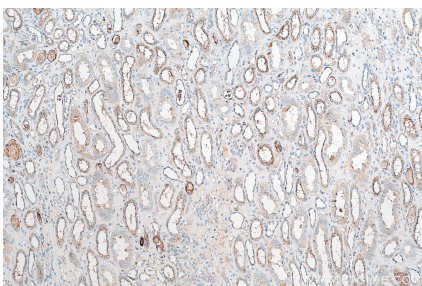
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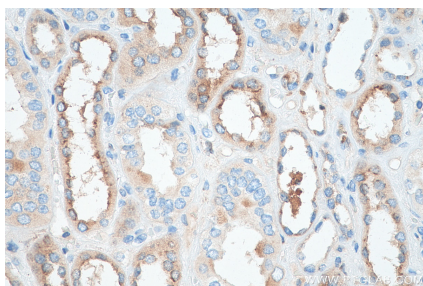
Selected Validation Data



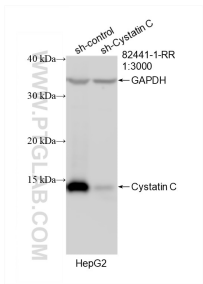
Various lysates were subjected to SDS PAGE followed by western blot with 82441-1-RR (Cystatin C antibody) at dilution of 1:3300 incubated at room temperature for 1.5 hours.



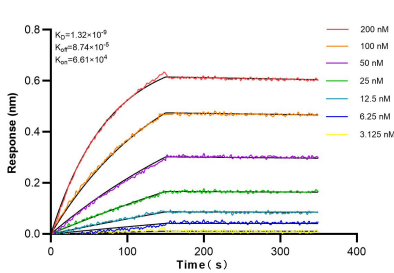
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 82441-1-RR (Cystatin C antibody) at dilution of 1:300 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 82441-1-RR (Cystatin C antibody) at dilution of 1:300 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of Cystatin C antibody (82441-1-RR; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Cystatin C transfected HepG2 cells.



Biolayer interferometry (BLI) kinetic assays of 82441-1-RR against Human Cystatin C were performed. The affinity constant is below 1 pM.