

Cystatin C Human, Rabbit Polyclonal Antibody

Product Data Sheet

Source of Antigen: Human urine

Host: Rabbit

Cat. No.:

RD181009220

(0.1 mg)

Other names: Post G-globulin, Cystatin-3, Neuroendocrine basic polypeptide, Gamma-trace, Post-gamma-globulin, CST3

Research topic

Animal studies, Neural tissue markers, Renal disease

Preparation

The antibody was raised in rabbits by immunization with the Human Cystatin C.

Species Reactivity

Human

Not yet tested in other species.

Purification Method

Immunoaffinity chromatography on a column with immobilized Human Cystatin C.

Antibody Content

0.1 mg (determined by BCA method, BSA was used as a standard)

Formulation

The antibody is lyophilized in 0.05 M phosphate buffer, 0.1 M NaCl, pH 7.2. **AZIDE FREE.**

Reconstitution

Add 0.1 ml of deionized water and let the lyophilized pellet dissolve completely. Slight turbidity may occur after reconstitution, which does not affect activity of the antibody. In this case clarify the solution by centrifugation.

Shipping

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

Storage/Stability

The lyophilized antibody remains stable and fully active until the expiry date when stored at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles and store frozen at -80°C. Reconstituted antibody can be stored at 4°C for a limited period of time; it does not show decline in activity after one week at 4°C.

Expiration

See vial label.

Lot Number

See vial label.

Quality Control Test

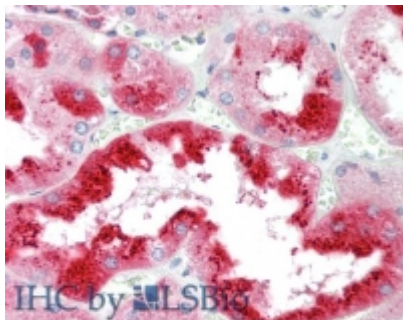
Indirect ELISA - to determine titer of the antibody

SDS PAGE - to determine purity of the antibody

Applications

ELISA, Immunohistochemistry, Western blotting

Antibodies application



Immunohistochemical staining of formalin-fixed paraffin-embedded human kidney using RD181009220 (Cystatin C human, Rabbit Polyclonal Antibody) at concentration of 5 µg/ml.
IHC performed by LSBio lab for BioVendor according to the IHC-plus Protocol (<https://www.lsbio.com/resources/ihc-plus-protocol>)

Introduction to the Molecule

Cystatin C is a non-glycosylated basic single-chain protein consisting of 120 amino acids with a molecular weight of 13.36 kDa and is characterized by two disulfide bonds in the carboxy-terminal region. It belongs to the cystatins superfamily which inactivates lysosomal cysteine proteinases, e.g. cathepsin B, H, K, L and S. Imbalance between Cystatin C and cysteine proteinases is associated with inflammation, renal failure, cancer, Alzheimer's disease, multiple sclerosis and hereditary Cystatin C amyloid angiopathy. Its increased level has been found in patients with autoimmune diseases, with colorectal tumors and in patients on dialysis. Serum Cystatin C seems to be better marker of glomerular filtration rate than creatinine. On the other hand, low concentration of Cystatin C presents a risk factor for secondary cardiovascular events.

References to this Product

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- Nedelkov D, Nelson RW . *Delineating protein-protein interactions via biomolecular interaction analysis-mass spectrometry*. [J Mol Recognit](#) . Jan-Feb;16(1):9-14 (2003)
- Nedelkov D, Nelson RW . *Design and use of multi-affinity surfaces in biomolecular interaction analysis-mass spectrometry (BIA/MS): a step toward the design of SPR/MS arrays*. [J Mol Recognit](#) . Jan-Feb;16(1):15-9 (2003)
- Konduri SD, Yanamandra N, Siddique K, Joseph A, Dinh DH, Olivero WC, Gujrati M, Kouraklis G, Swaroop A, Kyritsis AP, Rao JS . *Modulation of cystatin C expression impairs the invasive and tumorigenic potential of human glioblastoma cells*. [Oncogene](#) . Dec 12;21(57):8705-12 (2002)

Note

This product is for research use only. This product will be replaced with RD181009220-01

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