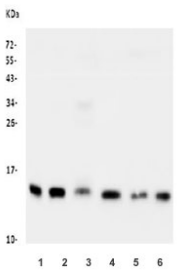
Cystatin C Antibody / Cystatin 3 [clone 4H8] (RQ4885)

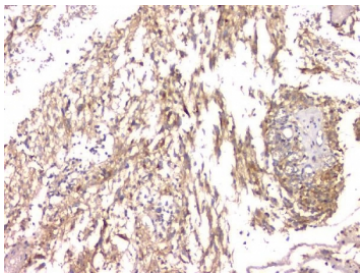
Catalog No.	Formulation	Size
RQ4885	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

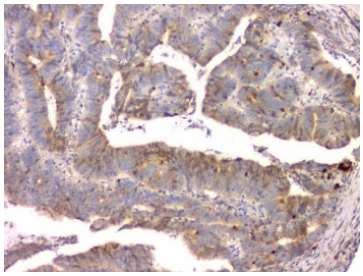
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a
Clone Name	4H8
Purity	Purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P01034
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 1-2ug/ml Flow Cytometry: 1-3ug/10^6 cells Immunofluorescence (FFPE): 2-4ug/ml ELISA (Capture): 1-5ug/ml
Limitations	This Cystatin C antibody is available for research use only.



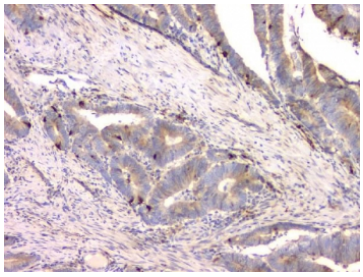
Western blot testing of human 1) PC-3, 2) Caco-2, 3) placenta, 4) A549, 5) COLO-320 and 6) HEK293 lysate with Cystatin C antibody. Predicted molecular weight ~16 kDa.



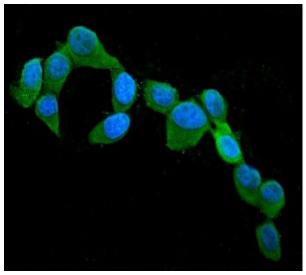
IHC staining of FFPE human glioma with Cystatin C antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



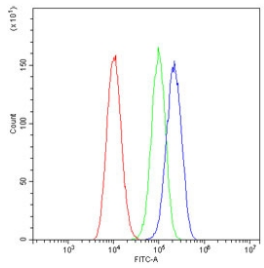
IHC staining of FFPE human colon cancer with Cystatin C antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human colon cancer with Cystatin C antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Immunofluorescent staining of FFPE human MCF7 cells with Cystatin C antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Flow cytometry testing of human A549 cells with Cystatin C antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Cystatin C antibody.

Description

Cystatin C or cystatin 3, a protein encoded by the CST3 gene, is mainly used as a biomarker of kidney function. Recently, it has been studied for its role in predicting new-onset or deteriorating cardiovascular disease. It also seems to play a role in brain disorders involving amyloid, such as Alzheimer's disease. In humans, all cells with a nucleus (cell core containing the DNA) produce cystatin C as a chain of 120 amino acids. It is found in virtually all tissues and body fluids. It is a potent inhibitor of lysosomal proteinases (enzymes from a special subunit of the cell that break down proteins) and probably one of the most important extracellular inhibitors of cysteine proteases (it prevents the breakdown of proteins outside the cell by a specific type of protein degrading enzymes). Cystatin C belongs to the type 2 cystatin gene family.

Application Notes

Optimal dilution of the Cystatin C antibody should be determined by the researcher.

Immunogen

Amino acids K31-A146 from the human protein were used as the immunogen for the Cystatin C antibody.

Storage

After reconstitution, the Cystatin C antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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