

Basic Information

Product Name	Anti-Cystatin C/CST3 Antibody	
Gene Name	CST3	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse	
Tested Application	WB, IHC, ELISA	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.	
Immunogen	E. coli-derived human Cystatin C recombinant protein (Position: K31-A146). Human Cystatin C shares 74.6% and 75.7% amino acid (aa) sequence identity with mouse and rat Cystatin C, respectively.	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	16 kDa	
Dilution Ratios	Western blot (WB):	1:500-2000
	Immunohistochemistry (IHC):	1:50-400
	ELISA:	1:100-1000
	(Boiling the paraffin sections in 10mM citrate buffer, pH6.0, or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

Storage

12 months from date of receipt, -20°C as supplied.

Background Information

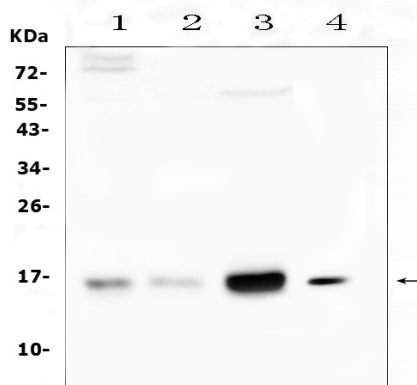
Cystatin C or cystatin 3, a protein encoded by the CST3 gene, is mainly used as a biomarker of kidney function. Recently, it has been studied for its role in predicting new-onset or deteriorating cardiovascular disease. It also seems to play a role in brain disorders involving amyloid, such as Alzheimer's 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.

Reference

Anti-Cystatin C/CST3 Antibody 被引用在2文献中。

Selected Validation Data



Western blot analysis of Cystatin C/CST3 using anti-Cystatin C/CST3 antibody (A00961-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human COLO-320 whole cell lysates,

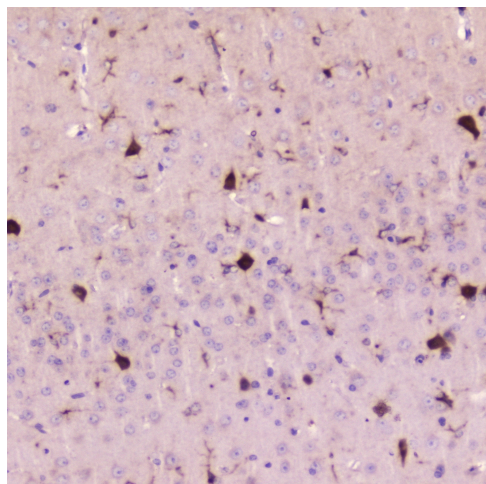
Lane 2: human placenta tissue lysates,

Lane 3: human HepG2 whole cell lysates,

Lane 4: mouse brain tissue lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-Cystatin C/CST3 antigen affinity purified polyclonal antibody (A00961-2) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Cystatin C/CST3 at approximately 16 kDa. The expected band size for Cystatin C/CST3 is at 16 kDa.



IHC analysis of Cystatin C/CST3 using anti-Cystatin C/CST3 antibody (A00961-2).

Cystatin C/CST3 was detected in a paraffin-embedded section of mouse brain tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-Cystatin C/CST3 Antibody (A00961-2) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.