Product datasheet

Anti-Cystatin C/CST3 Antibody (Clone#4H8)

Catalog Number: *M00961-1*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-Cystatin C/CST3 Antibody (Clone#4H8)
Gene Name	CST3
Source	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Species Reactivity	human
Tested Application	ICC/IF, WB, IHC, FCM, ELISA(Cap)
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E. coli-derived human Cystatin C recombinant protein (Position: K31-A146).
Concentration	500 ug/ml
Purification	protein G purified.
Observed MW	16 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow Cytometry (Fixed): 1:50-200 ELISA(Cap): 1:50-1:200 (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℃ 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

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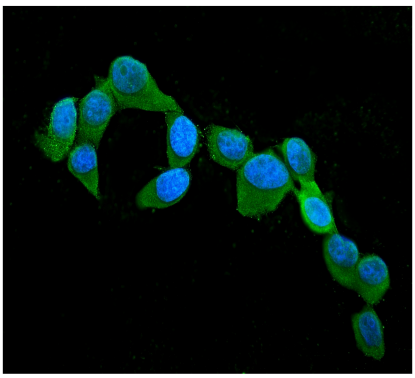
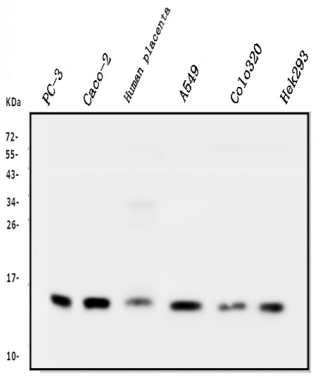
breakdown of proteins outside the cell by a specific type of protein degrading enzymes). Cystatin C belongs to the type 2 cystatin gene family.

Selected Validation Data



ICC/IF analysis of Cystatin C/CST3 using anti-Cystatin C/CST3 antibody (M00961-1).
Cystatin C/CST3 was detected in an immunocytochemical section of MCF-7 cells. The section was incubated with mouse anti-Cystatin C/CST3 Antibody (M00961-1) at a dilution of 1:100. Fluoro488-conjugated Anti-mouse IgG Secondary Antibody (green)(Catalog#BA1126) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



Western blot analysis of Cystatin C/CST3 using anti-Cystatin C/CST3 antibody (M00961-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human PC-3 whole cell lysates,
Lane 2: human CACO-2 whole cell lysates,
Lane 3: human placenta tissue lysates,
Lane 4: human A549 whole cell lysates,
Lane 5: human COLO320 whole cell lysates,
Lane 6: human HEK293 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with mouse anti-Cystatin C/CST3 antigen affinity purified monoclonal antibody (M00961-1) at a dilution of 1:1000 and probed with a goat anti-mouse IgG-HRP secondary antibody (Catalog # BA1050). 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.

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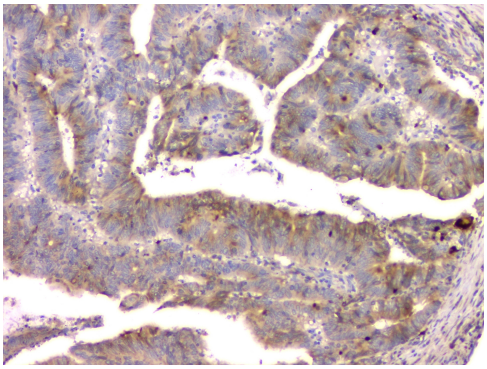
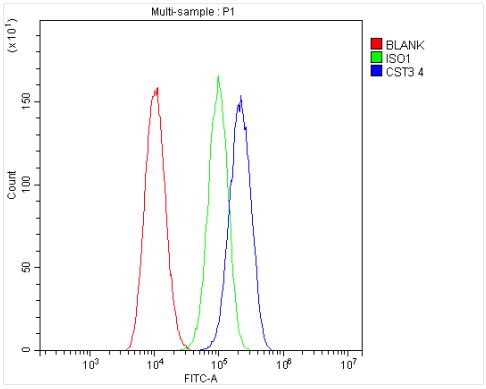


IHC analysis of Cystatin C/CST3 using anti-Cystatin C/CST3 antibody (M00961-1).
Cystatin C/CST3 was detected in a paraffin-embedded section of human colon cancer tissue. Biotinylated goat anti-mouse IgG was used as secondary antibody. The tissue section was incubated with mouse anti-Cystatin C/CST3 Antibody (M00961-1) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB (Catalog # AR1027) as the chromogen.



Flow Cytometry analysis of A549 cells using anti-Cystatin C/CST3 antibody (M00961-1).
Overlay histogram showing A549 cells stained with M00961-1 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-Cystatin C/CST3 Antibody (M00961-1) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-mouse IgG (BA1126) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.