

cystatin B (6A7): sc-101510

BACKGROUND

Cystatin A (also designated STF1, STFA, stefin A or cystatin AS) and cystatin B (also designated PME, CST6, STFB, CPI-B, stefin B and liver thiol proteinase inhibitor) are thiol protease inhibitors that form complexes with papain and the cathepsins B, H, and L. Cystatin A, a cytoplasmic protein, is one of the precursor proteins of the cornified cell envelope in keratinocytes and plays a role in epidermal development and maintenance. Cystatin B protects against intracellular proteases leaking out of lysosomes and is primarily expressed in heart, liver and kidney.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CSTB (human) mapping to 21q22.3.

SOURCE

cystatin B (6A7) is a mouse monoclonal antibody raised against recombinant cystatin B of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

cystatin B (6A7) is recommended for detection of cystatin B of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for cystatin B siRNA (h): sc-44431, cystatin B shRNA Plasmid (h): sc-44431-SH and cystatin B shRNA (h) Lentiviral Particles: sc-44431-V.

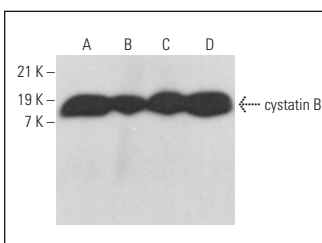
Molecular Weight of cystatin B: 12 kDa.

Positive Controls: T98G cell lysate: sc-2294, WI-38 whole cell lysate: sc-364260 or cystatin B (h2): 293 Lysate: sc-112337.

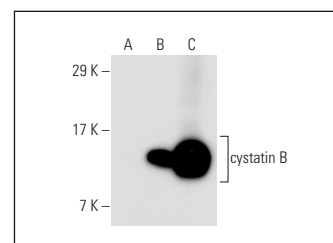
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA



cystatin B (6A7): sc-101510. Western blot analysis of cystatin B expression in T98G (A), Caki-1 (B), WI-38 (C) and DU 145 (D) whole cell lysates.



cystatin B (6A7): sc-101510. Western blot analysis of cystatin B expression in non-transfected 293: sc-110760 (A), human cystatin B transfected 293: sc-112337 (B) and U-87 MG (C) whole cell lysates.

SELECT PRODUCT CITATIONS

- Husi, H., Fernandes, M., Skipworth, R.J., Miller, J., Cronshaw, A.D., Fearon, K.C.H. and Ross, J.A. 2019. Identification of diagnostic upper gastrointestinal cancer tissue type-specific urinary biomarkers. *Biomed. Rep.* 10: 165-174.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.