cystatin C (m): 293T Lysate: sc-126695



The Power to Question

BACKGROUND

Cystatin C is a cysteine (thiol) protease inhibitor that belongs to the type II cystatin gene superfamily and is the most abundant extracellular inhibitor of cysteine proteases. Cystatin C is a constitutively secreted, amyloidogenic protein, which forms a two-fold symmetric dimer and modulates both cysteine protease activity and the expression of class II MHC molecules. Expression of cystatin C is an indicator of kidney function and glomerular filtration rate. Mutations in the cystatin C gene can lead to protein aggregates, which are implicated in hereditary amyloid angiopathy (HCCAA) and cerebral hemorrhage. Although both wildtype and mutant cystatin C are capable of forming concentration dependent inactive dimers, mutant cystatin C dimerizes at lower concentrations and is more susceptible to serine proteases, which may facilitate aggregation. In neuronal cells, oxidative stress stimulates expression of cystatin C, which may positively regulate apoptosis.

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CHROMOSOMAL LOCATION

Genetic locus: Cst3 (mouse) mapping to 2 G3.

PRODUCT

cystatin C (m): 293T Lysate represents a lysate of mouse cystatin C transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

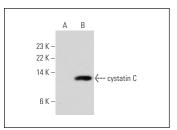
APPLICATIONS

cystatin C (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive cystatin C antibodies. Recommended use: 10-20 μl per lane

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

cystatin C (T12): sc-73879 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse cystatin C expression in cystatin C transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

DATA



cystatin C (T12): sc-73879. Western blot analysis of cystatin C expression in non-transfected: sc-117752 (A) and mouse cystatin C transfected: sc-126695 (B) 293T whole cell lysates.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

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