



cystatin 11 (K-17): sc-85516

BACKGROUND

The cystatins comprise a superfamily of proteins that contain multiple cystatin-like sequences and may function as active cysteine protease inhibitors. Cystatin proteins are divided into three distinct subfamilies, designated type 1 cystatins (stefins), type 2 cystatins and kininogens. The type 2 cystatins are expressed in human fluids and secretions and are encoded by genes that localize to a cystatin locus on chromosome 20. Cystatin 11, also known as SC13 or CST8L, is a 138 amino acid protein that localizes to both the nucleus and the cytoplasm and belongs to the type 2 subfamily of cystatins. Detected in epididymal and epithelial tissue, cystatin 11 functions as an antibacterial protein that is thought to play a role in sperm maturation and fertilization. Multiple isoforms of cystatin 11 exist due to alternative splicing events.

REFERENCES

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STORAGE

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

CHROMOSOMAL LOCATION

Genetic locus: CST11 (human) mapping to 20p11.21.

SOURCE

cystatin 11 (K-17) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of cystatin 11 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-85516 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

cystatin 11 (K-17) is recommended for detection of cystatin 11 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for cystatin 11 siRNA (h): sc-77080, cystatin 11 shRNA Plasmid (h): sc-77080-SH and cystatin 11 shRNA (h) Lentiviral Particles: sc-77080-V.

Molecular Weight of cystatin 11: 17 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

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

PROTOCOLS

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