cystatin S/SA/SN (Z8983): sc-73884

**BACKGROUND**

The cystatin superfamily is a well-established family of cysteine protease inhibitors. Cystatins A and B (type 1) are mainly intracellular; cystatins C, D, E/M, F, G, S, SN and SA cystatins are extracellular (type 2); and the kiningens are type 3 cystatins which are intravascular proteins. All true cystatins inhibit cysteine peptidases of the Papain family, such as cathepsins, and some also inhibit legumain family enzymes. Cystatin SA, cystatin S and cystatin SN are found primarily in saliva. Cystatin S and SN can also be expressed in tears, urine and seminal fluid. Cystatin C is a related protein which is expressed in brain, thymus, ovary, epididymis and vas deferens. Cystatin D protects against proteinases in the oral cavity, while cystatin E/M and F moderate the inhibition of cathepsin proteinases. The fetuins, part of the cystatin superfamily, are secretable proteins that influence osteogenesis and bone resorption, regulation of the Insulin and hepatocyte growth factor receptors and the response to systemic inflammation. High molecular weight kinogen (Kininogen HC) and low molecular weight kinogen (Kininogen LC) have varied roles, though they both inhibit the thrombin- and plasmin-induced aggregation of thrombocytes.

**REFERENCES**


**CHROMOSOMAL LOCATION**


**SOURCE**

cystatin S/SA/SN (Z8983) is a mouse monoclonal antibody raised against amino acids 21-141 of cystatin SA/SN of human origin.

**PRODUCT**

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

**APPLICATIONS**

cystatin S/SA/SN (Z8983) is recommended for detection of cystatin SA, S and SN of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)].


Molecular Weight of cystatin S/SA/SN: 16 kDa.

Positive Controls: human salivary gland extract: sc-363762.

**DATA**

![Western blot analysis of cystatin S/SA/SN expression in human salivary gland tissue extract.](image)

**SELECT PRODUCT CITATIONS**


**STORAGE**

For immediate and continuous use, store at 4° C for up to one month. For sporadic use, freeze in working aliquots in order to avoid repeated freeze/ thaw cycles. If turbidity is evident upon prolonged storage, clarify solution by centrifugation.

**RESEARCH USE**

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