

Rabbit anti-Human Cystatin S Monoclonal Antibody | anti-CST4 antibody

Recombinant Anti-Cystatin S Antibody, Rabbit Monoclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255424	Rabbit	Human	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

Cystatin S; Monoclonal Antibody; Recombinant Anti-Cystatin S Antibody; Rabbit Monoclonal; Cystatin S/CST4 Antibody; Rabbit MAbs; cystatin S; Anti-CST4 Antibody; Anti-MGC71923 Antibody; anti-CST4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	006
Specificity	Human Cystatin S/CST4
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-CST4 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), ELISA
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Human Cystatin S/CST4 protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Human Cystatin S/CST4 (rh Cystatin S/CST4).
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



FCM/FACS (Flow Cytometry)

Flow cytometric analysis of Human CST4 expression on HeLa cells. The cells were treated according to manufacturer's manual (BD Pharmingen), stained with purified anti-Human CST4, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.



IF (Immunofluorescence)

Immunofluorescence staining of Human CST4 in HeLa cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human CST4 monoclonal antibody (1:60) at 37 degree C 1 hour. Then cells were stained with the Alexa Fluor 594-conjugated goat Anti-rabbit IgG secondary antibody (red) and counterstained with DAPI (blue). Positive staining was localized to cytoplasm.

ADDITIONAL INFORMATION

Related Product Information for anti-CST4 antibody	Cystatin-S, also known as Cystatin-4, Salivary acidic protein 1, Cystatin-SA-III and CST4, is a secreted protein which belongs to thecystatin family. Cystatin-4/CST4 is expressed in submandibular and sublingual saliva but not in parotid saliva (at protein level). It is also expressed in saliva, tears, urine and seminal fluid. The cystatin superfamily encompasses proteins that contain multiple cystatin-like sequences. Some of the members are active cysteine protease inhibitors, while others have lost or perhaps never acquired this inhibitory activity. There are three inhibitory families in the superfamily, including the type 1 cystatins (stefins), type 2 cystatins and the kininogens. The type 2 cystatin proteins are a class of cysteine proteinase inhibitors found in a variety of human fluids and secretions. Cystatin-4/CST4 strongly inhibits papain and ficin, partially inhibits stem bromelain and bovine cathepsin C, but does not inhibit porcine cathepsin B or clostripain. Papain is inhibited non-competitively. Cystatin-4/CST4 is an S-type cystatin, based on its high level of expression in saliva, tears and seminal plasma. The specific role in these fluids is unclear but antibacterial and antiviral activity is present, consistent with a protective function.
References	Bobek L.A., et al., (1991), Human salivary cystatin S. Cloning, sequence analysis, hybridization in situ and immunocytochemistry. Biochem. J. 278:627-635.Saitoh E., et al., (1992), Characterization of two members (CST4 and CST5) of the cystatin gene family and molecular evolution of cystatin genes.Agents Actions 38:340-348.Deloukas P., et al., (2001), The DNA sequence and comparative analysis of human chromosome 20.Nature 414:865-871.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503109
NCBI GeneID	1472
NCBI Accession #	NP_001890.1
NCBI GenBank Nucleotide #	NM_001899.2
UniProt Accession #	P01036; Q9UBI5; Q9UCS9
Molecular Weight	16,214 Da
NCBI Official Full Name	cystatin-S
NCBI Official Synonym Full Names	cystatin S
NCBI Official Symbol	CST4
NCBI Protein Information	cystatin-S; cystatin 4; cystatin-4; cystatin-SA-III; salivary acidic protein 1
UniProt Protein Name	Cystatin-S
UniProt Gene Name	CST4
UniProt Entry Name	CYTS_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.