



Rabbit Anti-Cystatin B antibody

SL5158R

Product Name:	Cystatin B
Chinese Name:	胱抑素B/半胱氨酸蛋白酶抑制剂B抗体
Alias:	CPI B; CPI-B; CST6; CSTB; Cystatin B; Cystatin-B; CYTB; EPM1; Liver thiol proteinase inhibitor; PME; STFB; CHROW21; CYTB_HUMAN; EPM1A; Stefin-B; ULD.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	14kDa
Cellular localization:	The nucleuscytoplasmicSecretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Cystatin B:51-98/98
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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 kininogens. This gene encodes a stefin that functions as an intracellular thiol protease

inhibitor. The protein is able to form a dimer stabilized by noncovalent forces, inhibiting papain and cathepsins L, H and B. The protein is thought to play a role in protecting against the proteases leaking from lysosomes. Evidence indicates that mutations in this gene are responsible for the primary defects in patients with progressive myoclonic epilepsy (EPM1). [provided by RefSeq, Jul 2008]

Function:

Shows moderate inhibition of cathepsin B but is not active against cathepsin C.

Subcellular Location:

Cytoplasm. Nucleus. Secreted.

Tissue Specificity:

Restricted to the stratum granulosum of normal skin, the stratum granulosum/spinosum of psoriatic skin, and the secretory coils of eccrine sweat glands. Low expression levels are found in the nasal cavity.

Post-translational modifications:

Substrate for transglutaminases. Acts as an acyl acceptor but not as an acyl donor.

Similarity:

Belongs to the cystatin family.

SWISS:

P04080

Gene ID:

1476

Database links:

[Entrez Gene: 1476](#) Human

[Entrez Gene: 13014](#) Mouse

[Entrez Gene: 25308](#) Rat

[Omim: 601145](#) Human

[SwissProt: P04080](#) Human

[SwissProt: Q76LA1](#) Human

[SwissProt: Q62426](#) Mouse

[SwissProt: P01041](#) Rat

[Unigene: 695](#) Human

[Unigene: 6095](#) Mouse

[Unigene: 1233](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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