

For Research Use Only

# CST4 Recombinant monoclonal antibody, PBS Only

Catalog Number:86955-1-PBS



## Basic Information

<b>Catalog Number:</b> 86955-1-PBS	<b>GenBank Accession Number:</b> NM_001899.2	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 1472	<b>CloneNo.:</b> 252073B11
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P01036	
<b>Isotype:</b> IgG	<b>Full Name:</b> cystatin S	
<b>Immunogen Catalog Number:</b> EG3098	<b>Calculated MW:</b> 16 kDa	
	<b>Observed MW:</b> 16 kDa	

## Applications

**Tested Applications:**  
WB, Indirect ELISA

**Species Specificity:**  
human

## Background Information

Cystatins are a family of inhibitors of cysteine peptidases that comprises the salivary cystatins D and S-type (including CST5 and CST4,1,2) and cystatin C-type (CST3) (PMID: 25329717). The D and S-type cystatin have also been detected in seminal plasma, tears, and tracheobronchial fluid but not in other fluids and secretions where cystatin C is found. And the CST4 was expressed in the serous acinar and demilune cells of the human submandibular gland and at lower levels in the serous acini of the parotid gland (PMID:11879580). CST4 specifically combines with cysteine protease to regulate its activity, thus preventing hydrolysis of the extracellular matrix. And some studies propose that CST4 might be a biomarker for gastrointestinal cancer (PMID:29218251; PMID:29636621).

## Storage

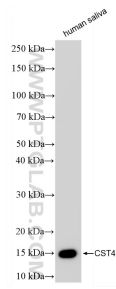
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

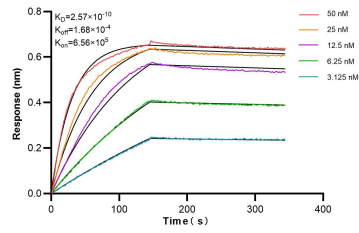
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)      E: proteintech@ptglab.com  
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## Selected Validation Data



human saliva were subjected to SDS PAGE followed by western blot with 86955-1-RR (CST4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86955-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 86955-1-RR against Human CST4 were performed. The affinity constant is 0.257 nM.