

For Research Use Only

CST4 Recombinant monoclonal antibody

Catalog Number:86955-1-RR



Basic Information

Catalog Number: 86955-1-RR	GenBank Accession Number: NM_001899.2	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 1472	CloneNo.: 252073B11
Isotype: IgG	UNIPROT ID: P01036	Recommended Dilutions: WB: 1:5000-1:50000
Immunogen Catalog Number: EG3098	Full Name: cystatin S	
	Calculated MW: 16 kDa	
	Observed MW: 16 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : human saliva,
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 -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

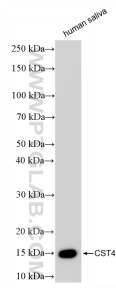
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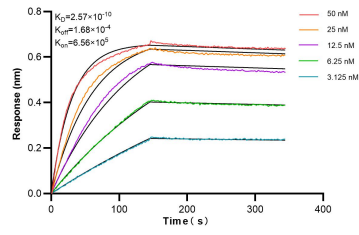
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Selected Validation Data



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.



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