

**Anti-Cystatin C/CST3 Picoband™ Biotinylated Antibody (monoclonal, 8D1)**  
Catalog # ABO14838**Specification****Anti-Cystatin C/CST3 Picoband™ Biotinylated Antibody (monoclonal, 8D1) - Product Information**

Application	E
Primary Accession	<a href="#">P01034</a>
Host	Mouse
Isotype	Mouse IgG1
Reactivity	Human
Clonality	Monoclonal
Format	Lyophilized

**Description**

Anti-Cystatin C/CST3 Picoband™ Biotinylated Antibody (monoclonal, 8D1) . Tested in ELISA applications. This antibody reacts with Human.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500 µg/ml.

**Anti-Cystatin C/CST3 Picoband™ Biotinylated Antibody (monoclonal, 8D1) - Additional Information**

**Gene ID** 1471

**Other Names**

Cystatin-C, Cystatin-3, Gamma-trace, Neuroendocrine basic polypeptide, Post-gamma-globulin, CST3

**Application Details**

ELISA (Det), 0.1-0.5 µg/ml<br>

**Subcellular Localization**

Nucleus

**Tissue Specificity**

Expressed in submandibular and sublingual saliva but not in parotid saliva (at protein level). Expressed in various body fluids, such as the cerebrospinal fluid and plasma. Expressed in highest levels in the epididymis, vas deferens, brain, thymus, and ovary and the lowest in the submandibular gland.

**Contents**

Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

**Immunogen**

E. coli-derived human Cystatin C recombinant protein (Position: K31-A146).

**Cross Reactivity**

No cross-reactivity with other proteins.

**Storage**

Store at  $-20^{\circ}\text{C}$  for one year from date of receipt. After reconstitution, at  $4^{\circ}\text{C}$  for one month. It can also be aliquotted and stored frozen at  $-20^{\circ}\text{C}$  for six months. Avoid repeated freeze-thaw cycles.

**Anti-Cystatin C/CST3 Picoband™ Biotinylated Antibody (monoclonal, 8D1) - Protein Information****Name** CST3**Function**

As an inhibitor of cysteine proteinases, this protein is thought to serve an important physiological role as a local regulator of this enzyme activity.

**Cellular Location**

Secreted.

**Tissue Location**

Expressed in submandibular and sublingual saliva but not in parotid saliva (at protein level). Expressed in various body fluids, such as the cerebrospinal fluid and plasma. Expressed in highest levels in the epididymis, vas deferens, brain, thymus, and ovary and the lowest in the submandibular gland

**Anti-Cystatin C/CST3 Picoband™ Biotinylated Antibody (monoclonal, 8D1) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-Cystatin C/CST3 Picoband™ Biotinylated Antibody (monoclonal, 8D1) - Images****Anti-Cystatin C/CST3 Picoband™ Biotinylated Antibody (monoclonal, 8D1) - Background**

Cystatin C or cystatin 3, a protein encoded by the CST3 gene, is mainly used as a biomarker of kidney function. Recently, it has been studied for its role in predicting new-onset or deteriorating cardiovascular disease. It also seems to play a role in brain disorders involving amyloid, such as Alzheimer's disease. In humans, all cells with a nucleus (cell core containing the DNA) produce cystatin C as a chain of 120 amino acids. It is found in virtually all tissues and body fluids. It is a potent inhibitor of lysosomal proteinases (enzymes from a special subunit of the cell that break down proteins) and probably one of the most important extracellular inhibitors of cysteine proteases (it prevents the breakdown of proteins outside the cell by a specific type of protein degrading enzymes). Cystatin C belongs to the type 2 cystatin gene family.