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Anti-Cystatin C/CST3 Antibody Picoband™ (monoclonal, 8H7)

Catalog # ABO14839

Specification

Anti-Cystatin C/CST3 Antibody Picoband™ (monoclonal, 8H7) - Product Information

Application	**E**
Primary Accession	P01034
Host	**Mouse**
Isotype	**Mouse IgG1**
Reactivity	**Human**
Clonality	**Monoclonal**
Format	**Lyophilized**

Description
Anti-Cystatin C/CST3 Antibody Picoband™ (monoclonal, 8H7) . 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 Antibody Picoband™ (monoclonal, 8H7) - Additional Information

Gene ID 1471

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

Application Details
ELISA (Cap), 1-5 µg/ml

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˚C for one year from date of**

receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.

Anti-Cystatin C/CST3 Antibody Picoband™ (monoclonal, 8H7) - 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 Antibody Picoband™ (monoclonal, 8H7) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Cystatin C/CST3 Antibody Picoband™ (monoclonal, 8H7) - Images

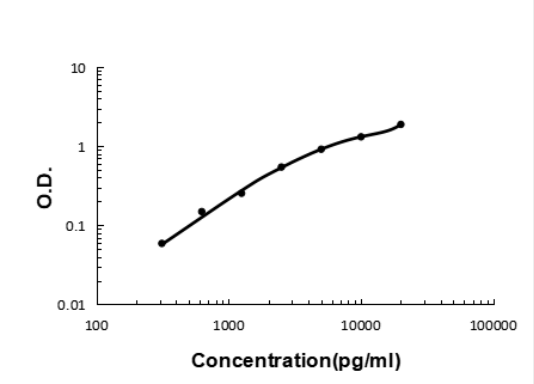

Figure 1. Sandwich ELISA - Recombinant human Cystatin C/CST3 protein standard curve.
Use in combination with reagents from Human Cystatin C/CST3 ELISA Kit EZ-Set (DIY Antibody Pairs) (EZ0678).

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Anti-Cystatin C/CST3 Antibody Picoband™ (monoclonal, 8H7) - 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.