

CTSD Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP9447b**Specification**

CTSD Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [P07339](#)**CTSD Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 1509**Other Names**

Cathepsin D, Cathepsin D light chain, Cathepsin D heavy chain, CTSD, CPSD

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CTSD Antibody (C-term) Blocking Peptide - Protein Information**Name** CTSD**Synonyms** CPSD**Function**

Acid protease active in intracellular protein breakdown. Plays a role in APP processing following cleavage and activation by ADAM30 which leads to APP degradation (PubMed:27333034). Involved in the pathogenesis of several diseases such as breast cancer and possibly Alzheimer disease.

Cellular Location

Lysosome. Melanosome. Secreted, extracellular space. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV. In aortic samples, detected as an extracellular protein loosely bound to the matrix (PubMed:20551380)

Tissue Location

Expressed in the aorta extracellular space (at protein level) (PubMed:20551380). Expressed in liver (at protein level) (PubMed:1426530).

CTSD Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

CTSD Antibody (C-term) Blocking Peptide - Images

CTSD Antibody (C-term) Blocking Peptide - Background

CTSD encodes a lysosomal aspartyl protease composed of a dimer of disulfide-linked heavy and light chains, both produced from a single protein precursor. This proteinase, which is a member of the peptidase C1 family, has a specificity similar to but narrower than that of pepsin A. Transcription of this gene is initiated from several sites, including one which is a start site for an estrogen-regulated transcript.

CTSD Antibody (C-term) Blocking Peptide - References

Christensen, B., et al. J. Biol. Chem. 285(11):7929-7937(2010)Albayrak, O., et al. J. Gerontol. A Biol. Sci. Med. Sci. 65(3):219-224(2010)Heinrich, M., et al. EMBO J. 18(19):5252-5263(1999)