

CTSK Antibody (Center E112) Blocking peptide
Synthetic peptide
Catalog # BP12885c**Specification**

CTSK Antibody (Center E112) Blocking peptide - Product InformationPrimary Accession [P43235](#)**CTSK Antibody (Center E112) Blocking peptide - Additional Information****Gene ID** 1513**Other Names**

Cathepsin K, Cathepsin O, Cathepsin O2, Cathepsin X, CTSK, CTSO, CTSO2

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.

CTSK Antibody (Center E112) Blocking peptide - Protein Information**Name** CTSK**Synonyms** CTSO, CTSO2**Function**

Thiol protease involved in osteoclastic bone resorption and may participate partially in the disorder of bone remodeling. Displays potent endoprotease activity against fibrinogen at acid pH. May play an important role in extracellular matrix degradation. Involved in the release of thyroid hormone thyroxine (T4) by limited proteolysis of TG/thyroglobulin in the thyroid follicle lumen (PubMed:11082042).

Cellular Location

Lysosome. Secreted. Apical cell membrane; Peripheral membrane protein; Extracellular side. Note=Localizes to the lumen of thyroid follicles and to the apical membrane of thyroid epithelial cells

Tissue Location

Predominantly expressed in osteoclasts (bones) (PubMed:7805878). Expressed in thyroid epithelial cells (PubMed:11082042).

CTSK Antibody (Center E112) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

CTSK Antibody (Center E112) Blocking peptide - Images

CTSK Antibody (Center E112) Blocking peptide - Background

The protein encoded by this gene is a lysosomal cysteineproteinase involved in bone remodeling and resorption. This protein, which is a member of the peptidase C1 protein family, is predominantly expressed in osteoclasts. However, the encoded protein is also expressed in a significant fraction of human breast cancers, where it could contribute to tumor invasiveness. Mutations in this gene are the cause of pycnodysostosis, an autosomal recessive disease characterized by osteosclerosis and short stature. This gene may be subject to RNA editing. [provided by RefSeq].

CTSK Antibody (Center E112) Blocking peptide - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Novinec, M., et al. Biochem. J. 429(2):379-389(2010) Khan, B., et al. J. Investig. Med. 58(5):720-724(2010) Johnatty, S.E., et al. PLoS Genet. 6 (7), E1001016 (2010) Szumilo, J., et al. Folia Histochem. Cytobiol. 47(4):571-578(2009)