

CTSK / Cathepsin K Antibody
Rabbit Polyclonal Antibody
Catalog # ALS12298**Specification**

CTSK / Cathepsin K Antibody - Product Information

Application	WB
Primary Accession	P43235
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Chicken
Host	Rabbit
Clonality	Polyclonal
Calculated MW	37kDa KDa

CTSK / Cathepsin K Antibody - Additional Information**Gene ID** 1513**Other Names**

Cathepsin K, 3.4.22.38, Cathepsin O, Cathepsin O2, Cathepsin X, CTSK, CTSO, CTSO2

Target/Specificity

The antibody detects proform (43 kD) and the mature form (29 kD) of cathepsin K.

Reconstitution & Storage

Long term: -70°C; Short term: -20°C

Precautions

CTSK / Cathepsin K Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

CTSK / Cathepsin K Antibody - 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

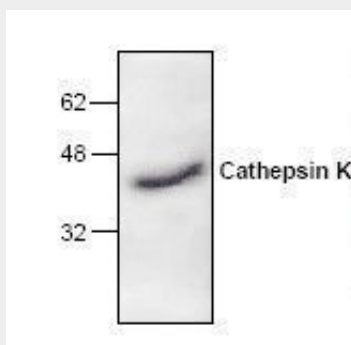
Tissue Location

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

CTSK / Cathepsin K Antibody - 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](#)

CTSK / Cathepsin K Antibody - Images

Western blot of Cathepsin K antibody ALS12298 with rat kidney lysates.

CTSK / Cathepsin K Antibody - Background

Closely 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.

CTSK / Cathepsin K Antibody - References

Shi G.-P., et al. FEBS Lett. 357:129-134(1995).
Inaoka T., et al. Biochem. Biophys. Res. Commun. 206:89-96(1995).
Li Y., et al. J. Bone Miner. Res. 10:1197-1202(1995).
Broemme D., et al. Biol. Chem. Hoppe-Seyler 376:379-384(1995).
Ebert L., et al. Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.