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CTSK antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI14590

Product Information

Application	WB
Primary Accession	P43235
Other Accession	NM_000396, NP_000387
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Goat, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Zebrafish
Host	Rabbit
Clonality	Polyclonal
Calculated MW	36966

Additional Information

Gene ID	1513
Alias Symbol	CTS02, CTSO, CTSO1, CTSO2, MGC23107, PKND, PYCD
Other Names	Cathepsin K, 3.4.22.38, Cathepsin O, Cathepsin O2, Cathepsin X, CTSK, CTSO, CTSO2
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-CTSK antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	CTSK antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

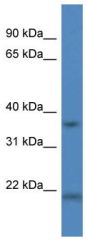
Name	CTSK
Synonyms	CTSO, CTSO2
Function	Thiol protease involved in osteoclastic bone resorption and may participate partially in the disorder of bone remodeling. Displays potent endoprotease activity against fibrinogen at acid pH. May play an important role in extracellular matrix degradation. Involved 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).

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.

Images



WB Suggested Anti-CTSK Antibody Titration: 1.0 µg/ml
Positive Control: Fetal Liver

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.