

**Cathepsin K Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10434****Specification**

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**Cathepsin K Antibody - Product Information**

Application	WB, IHC, IP
Primary Accession	<a href="#">O35186</a>
Other Accession	<a href="#">NP_113748</a>
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	36791

**Cathepsin K Antibody - Additional Information****Gene ID** 29175

Application & Usage	Western blotting (0.5-4 µg/ml), immunoprecipitation, and Immunohistochemistry. However, the optimal conditions should be determined individually. The antibody detects proform (43 kDa) and the mature form (29 kDa) of cathepsin K.
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**Other Names**

CTSK , CTSO2 , CTSO , CTSO1, PKND, CTSO2 , PYCD , MGC23107 , EC 3.4.22.38

**Target/Specificity**

Cathepsin K

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

100 µg (0.5 mg/ml) protein A purified rabbit anti-cathepsin K polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal.

**Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage**

-20 °C

**Background Descriptions**

**Precautions**

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

**Cathepsin K Antibody - Protein Information****Name** Ctsk**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.

**Cellular Location**

Lysosome {ECO:0000250|UniProtKB:P43235}. Secreted {ECO:0000250|UniProtKB:P43235}. Apical cell membrane {ECO:0000250|UniProtKB:P43235}; Peripheral membrane protein {ECO:0000250|UniProtKB:P43235}; Extracellular side {ECO:0000250|UniProtKB:P43235}. Note=Localizes to the lumen of thyroid follicles and to the apical membrane of thyroid epithelial cells {ECO:0000250|UniProtKB:P43235}

**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](#)

**Cathepsin K Antibody - Images****Cathepsin K Antibody - Background**

Cathepsin family of proteases contains several diverse classes of enzymes. The cysteine protease class comprises cathepsin B, H, K, L, O, and S. The aspartyl protease class contains cathepsin D and E. Cathepsin G belongs to the serine protease class. Cathepsins are involved in various cellular events such as peptide biosynthesis, protein degradation, and apoptosis. Cathepsin K expression is highest in bone, cartilage, and skeletal muscle.