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CTSK Rabbit pAb

Catalog No.: A1782 **29 Publications**

Basic Information

Observed MW
27-29 kDa(mature form)/39-43 kDa(precursor)

Calculated MW
37kDa

Category
Primary antibody

Applications
WB,IHC-P,ELISA

Cross-Reactivity
Human, Mouse, Rat

Background

The protein encoded by this gene is a lysosomal cysteine proteinase 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.

Recommended Dilutions

WB	1:500 - 1:5000
IHC-P	1:2000 - 1:8000
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
1513

Swiss Prot
P43235

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
CTSO; PKND; PYCD; CTS02; CTSO1; CTSO2; CTSK

Contact

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Product Information

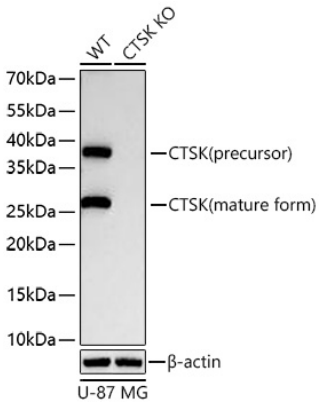
Source
Rabbit

Isotype
IgG

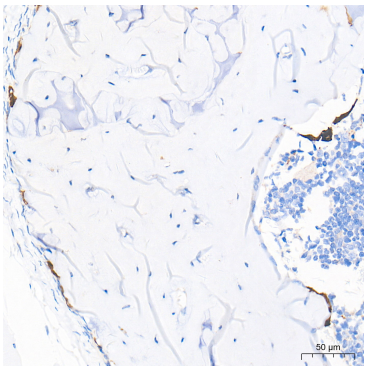
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide.
May contain 0.05% BSA as specified on the Certificate of Analysis.

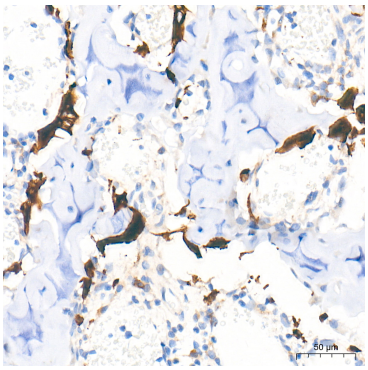
Validation Data



Western blot analysis of lysates from wild type (WT) and CTSK knockout (KO) U-87 MG cells using CTSK Rabbit pAb (A1782) at 1:5000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45 s.



Immunohistochemistry analysis of paraffin-embedded Mouse bone tissue using CTSK Rabbit pAb (A1782) at a dilution of 1:4000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat bone tissue using CTSK Rabbit pAb (A1782) at a dilution of 1:4000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

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