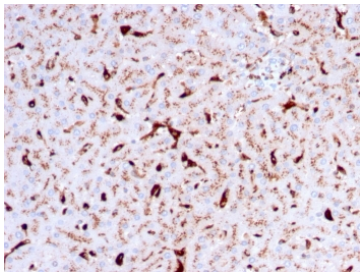
Cathepsin K Antibody [clone CTSK/2792] (V7706)

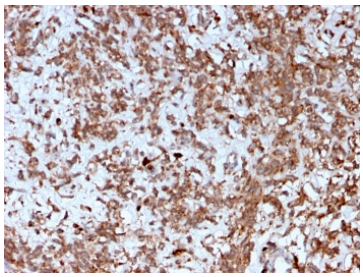
Catalog No.	Formulation	Size
V7706-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7706-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7706SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

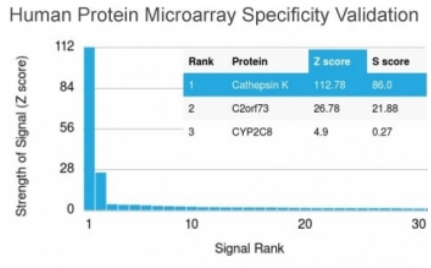
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	CTSK/2792
Purity	Protein G affinity chromatography
UniProt	P43235
Localization	Cytoplasmic
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This Cathepsin K antibody is available for research use only.



IHC staining of FFPE human liver with Cathepsin K antibody (clone CTSK/2792). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.



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Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Cathepsin K antibody (clone CTSK/2792). These results demonstrate the foremost specificity of the CTSK/2792 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

Description

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.

This antibody can be compared with our Cathepsin K Antibody / CTSK Lysosomal Protease Antibody (clone CTSK/2791) as a central reference for CTSK detection and collagen degradation studies.

Application Notes

Optimal dilution of the Cathepsin K antibody should be determined by the researcher.

Immunogen

A recombinant human partial protein (amino acids 163-274) was used as the immunogen for the Cathepsin K antibody.

Storage

Store the Cathepsin K antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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