Datasheet for ABIN6939219

anti-Cathepsin K antibody (AA 163-274)

6 Images

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Overview

Quantity:	100 µg
Target:	Cathepsin K (CTSK)
Binding Specificity:	AA 163-274
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Cathepsin K antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Staining Methods (StM)

Product Details

Immunogen:	Recombinant fragment of human Cathepsin K protein (around aa 163-274) (exact sequence is proprietary)
Clone:	CTSK-2791
Isotype:	IgG1 kappa
Purification:	Purified by Protein A/G

Target Details

Target:	Cathepsin K (CTSK)
Alternative Name:	CTSK (CTSK Products)
Background:	The protein encoded by this gene is a lysosomal cysteine proteinase involved in bone

Target Details

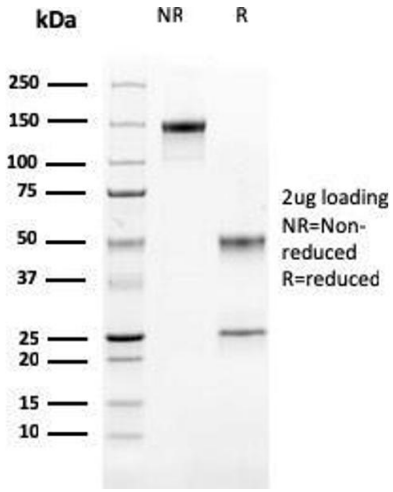
	remodeling and resorption. This protein, which is a member of the peptidase C1 protein family, is predominantly expressed in osteoclasts. However, the encoded protein is also expressed in a significant fraction of human breast cancers, where it could contribute to tumor invasiveness. Mutations in this gene are the cause of pycnodysostosis, an autosomal recessive disease characterized by osteosclerosis and short stature.
Molecular Weight:	39kDa
Gene ID:	1513
UniProt:	P43235
Pathways:	Activation of Innate immune Response, Toll-Like Receptors Cascades

Application Details

Application Notes:	Positive Control: Human liver or breast tissue (IHC). Known Application: Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT) (Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

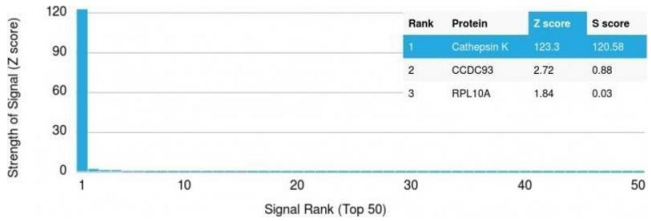
Handling

Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Expiry Date:	24 months



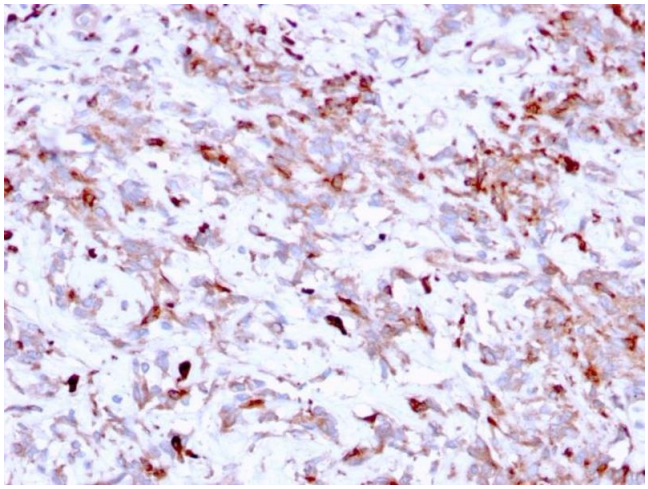
SDS-PAGE

Image 1. SDS-PAGE Analysis Purified Cathepsin K Mouse Monoclonal Antibody (CTSK/2791). Confirmation of Purity and Integrity of Antibody



Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using Cathepsin K Mouse Monoclonal Antibody (CTSK/2791) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Liver Carcinoma stained with Cathepsin K Mouse Monoclonal Antibody (CTSK/2791).

Please check the product details page for more images. Overall 6 images are available for ABIN6939219.