DATASHEET

Cathepsin K Rabbit Monoclonal Antibody(ARA517)

CAT. NO. ARA5842

KEY FEATURES

Target:	Cathepsin K	**Clone ID:**	ARA517
Source/Host:	Rabbit	**Reactivity:**	Human
Clonality:	Monoclonal	**Applications:**	IHC
Storage:	at-20°C		

BACKGROUND

CTSK encodes cathepsin K, a lysosomal cysteine proteinase involved in bone remodeling and resorption. As a member of the peptidase C1 protein family, cathepsin K is predominantly expressed in osteoclasts, where it degrades type I collagen and other bone matrix proteins during bone resorption. The protein is also expressed in a significant fraction of human breast cancers, where it may contribute to tumor invasiveness. Mutations in this gene are the cause of pycnodysostosis, an autosomal recessive disease characterized by osteosclerosis and short stature.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

IHC	1:100-1:200

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

OVERVIEW

Description	Rabbit monoclonal antibody to human Cathepsin K
Specificity	Specifically detects a band for Cathepsin K (UniProt: P43235) at a molecular weight of 37 kDa.
Antibody Type	Primary antibody,Recombinant
Purification	The antibody was purified by protein A affinity chromatography.
Molecular Weight	Predicted: 37 kD; Observed: 39 kD
Isotype	IgG
Form/Buffer	50% Glycerol/PBS with 1% BSA and 0.09% sodium azide
Alternative Names	CTSK; CTSO; CTSO2; Cathepsin O; Cathepsin O2; Cathepsin X
Gene Symbol	CTSK
Entrez Gene	1513(Human)
SwissProt	P43235(Human)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

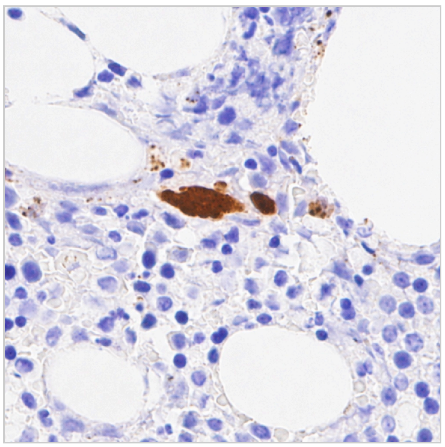
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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DATA



Immunohistochemical analysis of paraffin-embedded human bone tissue with Cathepsin K Rabbit Monoclonal Antibody(ARA517) at 1:200 dilution. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0); detection with HRP conjugated compact polymer system, DAB chromogen; counterstained with hematoxylin.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.

More information: www.arexbio.com