CTSK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CTSK, Polyclonal Antibody
Full Product Name	CTSK (Cathepsin K, Cathepsin O, Cathepsin X, Cathepsin O2, CTSO2, CTSO) (MaxLight 490)
Product Gene Name	anti-CTSK antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CTSK.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo
Molecular Weight	36,966 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (150768684..150780917, complement). Location: 1q21
OMIM	265800
3D Structure	ModBase 3D Structure for P43235
Immunogen	Full length human CTSK, aa1-329 (NP_000387.1).
Immunogen Sequence	MWGLKVLLLPVVSFALYPEEILDTHWELWKKTHRKQYNNKVDEISRRLIWEKNLKYISIHNLEASLGVHTYELAMNHLGDMTSEEVVQKMTGLKVPLSHSR
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-CTSK antibody	Antibodies; Cathepsin
Applications Tested/Suitable for anti-CTSK antibody	Western Blot (WB)
Application Notes for anti-CTSK antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-CTSK antibody	The protein encoded by this gene is a lysosomal cysteine proteinase involved in bone remodeling and resorption. This protein, which is a member of th short stature. This gene may be subject to RNA editing.
Other Notes	Small volumes of anti-CTSK antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necess
Searchable Terms for CTSK purchase	MBS6375067 is an antibody targeting CTSK. Also known as CTSK (Cathepsin K, Cathepsin O, Cathepsin X, Cathepsin O2, CTSO2, CTSO) (MaxLight

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CTSK. It may not necessarily be applicable to this product.

NCBI GI #	4503151
NCBI GeneID	1513
NCBI Accession #	NP_000387.1
UniProt Primary Accession #	P43235
UniProt Secondary Accession #	Q6FHS6
UniProt Related Accession #	P43235
GenBank Nucleotide #	NM_000396.2
NCBI Official Full Name	cathepsin K preproprotein
NCBI Official Synonym Full Names	cathepsin K
NCBI Official Symbol	CTSK
NCBI Official Synonym Symbols	CTSO; PKND; PYCD; CTS02; CTSO1; CTSO2
UniProt Protein Name	Cathepsin K
UniProt Synonym Protein Names	Cathepsin O; Cathepsin O2; Cathepsin X
Protein Family	Cathepsin
UniProt Gene Name	CTSK
UniProt Synonym Gene Names	CTSO; CTSO2
UniProt Entry Name	CATK_HUMAN
NCBI Protein Information	cathepsin K; cathepsin O; cathepsin X; cathepsin O1; cathepsin O2
NCBI Summary for CTSK	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. [provided by RefSeq, Apr 2013]

UniProt Comments for CTSK	CTSK: Closely 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. Defects in CTSK are the cause of pycnodysostosis (PKND). PKND is an autosomal recessive osteochondrodysplasia characterized by osteosclerosis and short stature. Belongs to the peptidase C1 family. Protein type: Protease; EC 3.4.22.38 Chromosomal Location of Human Ortholog: 1q21 Cellular Component: extracellular space; extracellular region Molecular Function: collagen binding; protein binding; proteoglycan binding; fibronectin binding; cysteine-type endopeptidase activity; cysteine-type peptidase activity Biological Process: extracellular matrix disassembly; collagen catabolic process; intramembranous ossification; extracellular matrix organization and biogenesis; proteolysis involved in cellular protein catabolic process; toll-like receptor signaling pathway; innate immune response; proteolysis; bone resorption Disease: Pycnodysostosis
Research Articles on CTSK	**1.** Our results demonstrate that increased adhesion, migration and invasiveness of tumor cells depend on the inactivation of the tumor suppressive function of profilin 1 by cathepsin X.
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