



Human CTSK blocking peptide (CDBP0699)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Blocking/Immunizing peptide for anti-Cathepsin K antibody
Antigen 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. [provided by RefSeq, Apr 2013]
Species	Human
Conjugate	Unconjugated
Applications	Apuri, BL, ELISA
Format	Lyophilized powder
Size	100 µg
Preservative	None
Storage	Shipped at ambient temperature, store at -20°C.

GENE INFORMATION

Gene Name	CTSK cathepsin K [Homo sapiens (human)]
Official Symbol	CTSK
Synonyms	CTSK; cathepsin K; CTSO; PKND; PYCD; CTSO2; CTSO1; CTSO2; cathepsin O; cathepsin X; cathepsin O1; cathepsin O2;

Entrez Gene ID	1513
mRNA Refseq	NM_000396.3
Protein Refseq	NP_000387.1
UniProt ID	P43235
Chromosome Location	1q21
Pathway	Activation of Matrix Metalloproteinases, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem; Collagen degradation, organism-specific biosystem; Degradation of the extracellular matrix, organism-specific biosystem; Extracellular matrix organization, organism-specific biosystem; Immune System, organism-specific biosystem; Innate Immune System, organism-specific biosystem; Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; MHC class II antigen presen
Function	collagen binding; cysteine-type endopeptidase activity; cysteine-type peptidase activity; fibronectin binding; proteoglycan binding;