



CTSK blocking peptide (DAG-P1358)

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

PRODUCT INFORMATION

| | |
|------------------------------|---|
| 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] |
| Specificity | Predominantly expressed in osteoclasts (bones). |
| Purity | > 95 % by SDS-PAGE. |
| Conjugate | Unconjugated |
| Applications | WB, BL |
| Sequence Similarities | Belongs to the peptidase C1 family. |
| Format | Liquid |
| Buffer | Preservative: 0.02% Thimerosal (merthiolate) Constituents: 0.1% BSA, PBS, pH 7.2 |
| Preservative | 0.02% Thimerosal |
| Storage | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. Preservative: 0.02% Thimerosal (merthiolate) Constituents: 0.1% BSA, PBS, pH 7.2 |

GENE INFORMATION

| | |
|------------------------|---|
| Gene Name | CTSK cathepsin K [Homo sapiens (human)] |
| Official Symbol | CTSK |

| | |
|----------------------------|--|
| Synonyms | CTSK; cathepsin K; CTSO; PKND; PYCD; CTS02; 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; |