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Cathepsin B Blocking Peptide
Catalog # PBV10075b

Specification

Cathepsin B Blocking Peptide - Product Information

Primary Accession	P07858
Gene ID	1508
Calculated MW	37822

Cathepsin B Blocking Peptide - Additional Information

Gene ID 1508

Application & Usage	**The peptide is used for blocking the antibody activity of Cathepsin B. It usually blocks the antibody activity completely in Western blot analysis by incubating the peptide with equal volume of antibody for 30-60 minutes at 37°C.**

Other Names
Cathepsin B, 3.4.22.1, APP secretase, APPS, Cathepsin B1, Cathepsin B light chain, Cathepsin B heavy chain, CTSB, CPSB

Target/Specificity
Cathepsin B (for 3190-100)

Formulation
50 µg (0.2 mg/ml) in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 0.5% BSA and 0.01% thimerosal.

Reconstitution & Storage
-20 °C

Background Descriptions

Precautions
Cathepsin B Blocking Peptide is for research use only and not for use in diagnostic or therapeutic procedures.

Cathepsin B Blocking Peptide - Protein Information

Name CTSB

Synonyms CPSB

Function
Thiol protease which is believed to participate in intracellular degradation and turnover of proteins

(PubMed:12220505). Cleaves matrix extracellular phosphoglycoprotein MEPE (PubMed:12220505). Involved in the solubilization of cross-linked TG/thyroglobulin in the thyroid follicle lumen (By similarity). Has also been implicated in tumor invasion and metastasis (PubMed:3972105).

Cellular Location
Lysosome. Melanosome. Secreted, extracellular space {ECO:0000250|UniProtKB:A1E295}. Apical cell membrane {ECO:0000250|UniProtKB:P10605}; Peripheral membrane protein {ECO:0000250|UniProtKB:P10605}; Extracellular side {ECO:0000250|UniProtKB:P10605}. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV (PubMed:17081065) Localizes to the lumen of thyroid follicles and to the apical membrane of thyroid epithelial cells (By similarity) {ECO:0000250|UniProtKB:P10605, ECO:0000269|PubMed:17081065}

Tissue Location
Expressed in the stratum spinosum of the epidermis. Weak expression is detected in the stratum granulosum

Cathepsin B Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Cathepsin B Blocking Peptide - Images