

CATB Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP7367c**Specification**

CATB Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [P07858](#)**CATB Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 1508**Other Names**

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

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7367c](/products/AP7367c) was selected from the Center region of human CATB. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CATB Antibody (Center) 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](http://www.uniprot.org/citations/12220505)). Cleaves matrix extracellular phosphoglycoprotein MEPE (PubMed: [12220505](http://www.uniprot.org/citations/12220505)). Involved in the solubilization of cross-linked TG/tyroglobulin in the thyroid follicle lumen (By similarity). Has also been implicated in tumor invasion and metastasis (PubMed: [3972105](http://www.uniprot.org/citations/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

CATB Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

CATB Antibody (Center) Blocking Peptide - Images**CATB Antibody (Center) Blocking Peptide - Background**

The protein CATB is a lysosomal cysteine proteinase composed of a dimer of disulfide-linked heavy and light chains, both produced from a single protein precursor. It is also known as amyloid precursor protein secretase and is involved in the proteolytic processing of amyloid precursor protein (APP). Incomplete proteolytic processing of APP has been suggested to be a causative factor in Alzheimer disease, the most common cause of dementia. Overexpression of the protein, which is a member of the peptidase C1 family, has been associated with esophageal adenocarcinoma and other tumors.

CATB Antibody (Center) Blocking Peptide - References

Zhang,H., J. Immunol. 182 (11), 6993-7000 (2009)Duncan,J.A., J. Immunol. 182 (10), 6460-6469 (2009)