

**Goat anti-Cathepsin B Antibody**  
Peptide-affinity purified goat antibody  
Catalog # AF4521a

## Specification

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### Goat anti-Cathepsin B Antibody - Product Information

Application	IHC, IF, FC, Pep-ELISA
Primary Accession	<a href="#">P07858</a>
Other Accession	<a href="#">NP_001899</a> , <a href="#">NP_680090</a> , <a href="#">NP_680091</a> , <a href="#">NP_680092</a> , <a href="#">NP_680093</a>
Reactivity	Human, Mouse, Rat, Dog
Host	Goat
Clonality	Polyclonal
Calculated MW	37822

### Goat anti-Cathepsin B Antibody - Additional Information

**Gene ID** 1508

#### Other Names

CTSB; cathepsin B ; HGNC:2527; APPS; CPSB; APP secretase; amyloid precursor protein secretase; cathepsin B1 cysteine protease; preprocathepsin B

#### Format

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.

#### Immunogen

All five transcript variants encode the same protein (NP\_001899; NP\_680090; NP\_680091; NP\_680092; NP\_680093).

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

Goat anti-Cathepsin B Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### Goat anti-Cathepsin B Antibody - Protein Information

**Name** CTSB

**Synonyms** CPSB

#### Function

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

(PubMed:<a href="http://www.uniprot.org/citations/12220505" target="\_blank">12220505</a>). Cleaves matrix extracellular phosphoglycoprotein MEPE (PubMed:<a href="http://www.uniprot.org/citations/12220505" target="\_blank">12220505</a>). 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:<a href="http://www.uniprot.org/citations/3972105" target="\_blank">3972105</a>).

#### 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

#### Goat anti-Cathepsin B Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Goat anti-Cathepsin B Antibody - Images