

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

Goat anti-Cathepsin B Antibody - Product Information

Application	IHC, IF, FC, Pep-ELISA
Primary Accession	P07858
Other Accession	NP_001899 , NP_680090 , NP_680091 , NP_680092 , NP_680093
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

DilutionIHC~~1:100~500
IF~~1:50~200
FC~~1:10~50
Pep-ELISA~~N/A**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: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

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