

Cathepsin B Polyclonal Antibody

Catalog # AP73880

Product Information

Application	WB
Primary Accession	P07858
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	37822

Additional Information

Gene ID	1508
Other Names	CTSB; CPSB; Cathepsin B; APP secretase; APPS; Cathepsin B1
Dilution	WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

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}

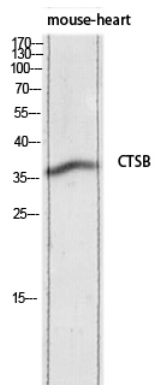
Tissue Location

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

Background

Thiol protease which is believed to participate in intracellular degradation and turnover of proteins (PubMed:[12220505](#)). Cleaves matrix extracellular phosphoglycoprotein MEPE (PubMed:[12220505](#)). Has also been implicated in tumor invasion and metastasis (PubMed:[3972105](#)).

Images



Western blot analysis of mouse-heart lysis using CTSB antibody. Antibody was diluted at 1:1000. Secondary antibody was diluted at 1:20000

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.