

Cathepsin B Polyclonal Antibody

Catalog # AP68862

Product Information

Application WB, IHC-P **Primary Accession** P07858

Reactivity Human, Mouse, Rat

HostRabbitClonalityPolyclonalCalculated MW37822

Additional Information

Gene ID 1508

Other Names CTSB; CPSB; Cathepsin B; APP secretase; APPS; Cathepsin B1

Dilution WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300.

ELISA: 1/5000. Not yet tested in other applications. IHC-P~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/5000. 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:<u>12220505</u>). Cleaves matrix extracellular phosphoglycoprotein MEPE (PubMed:<u>12220505</u>). 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}

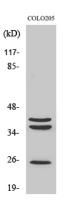
Tissue Location

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

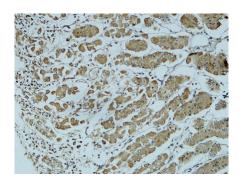
Background

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).

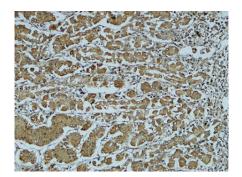
Images



Western Blot analysis of various cells using Cathepsin B Polyclonal Antibody

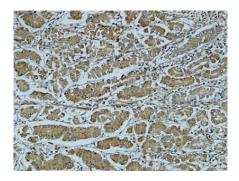


Immunohistochemical analysis of paraffin-embedded Human colon. 1, Antibody was diluted at 1:200(4°,overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).



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