

KD-Validated Anti-Cathepsin B Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI2398

Product Information

Application	WB, ICC
Primary Accession	P07858
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB 1130
Calculated MW	37822
Gene Name	CTSB
Aliases	CTSB; Cathepsin B; APP Secretase; Cathepsin B1; EC 3.4.22.1; APPS; CPSB; Keratolytic Winter Erythema (Oudtshoorn Skin Disease); Epididymis Secretory Sperm Binding Protein; Amyloid Precursor Protein Secretase; Cysteine Protease; EC 3.4.22; RECEUP; KWE
Immunogen	A synthesized peptide derived from human Cathepsin B

Additional Information

Gene ID	1508
Other Names	Cathepsin B, 3.4.22.1, APP secretase, APPS, Cathepsin B1, Cathepsin B light chain, Cathepsin B heavy chain, CTSB, CPSB

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

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