

Rabbit anti-Human Cathepsin B Monoclonal Antibody | anti-CTSB antibody

Cathepsin B Rabbit mAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA282997	Rabbit	Human	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

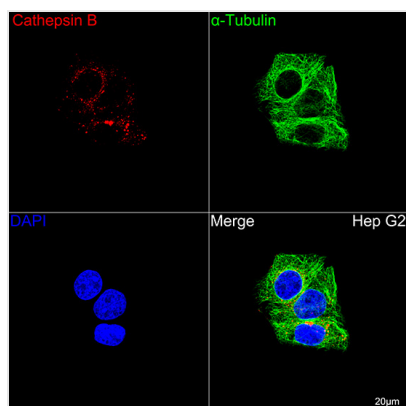
PRODUCT SYNONYMS

Cathepsin B; Monoclonal Antibody; Cathepsin B Rabbit mAb; KWE; APPS; CPSB; RECEUP; anti-CTSB antibody

PRODUCT SPECIFICATIONS

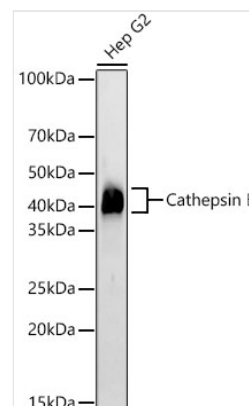
Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.05% proclin300, 0.05% BSA, 50% glycerol, pH7.3.
Sequence	CCLLVLANAR SRPSFHPLSD ELVNYVNKRN TTWQAGHNFY NVDMSYKRL CGTFLGGPKP PQRVMFTEDL KLPASFDARE QWPQCPTIKE IRDQGSCGSC WAFGAVEAIS DRICHTNAH VSVEVSAEDL LTCCGSMCGD GCNGGYPAEA WNFWTRKGLV SGGLYESHVG CRPYSIPPCE HHVNGSRPPC TGEDTPKCS KICEPGYSPT YKQDKHYGYN SYSVSNSEKD IMAEIYKNGP VEGAFSVYSY FLLYKSGVYQ HVTGEMMGGH AIRILGWGVE NGTPYWLVA SWNTDWGDNG FFKILRGQDH CGIESEVVAG IPRTDQYWEK I
Applicable Applications for anti-CTSB antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 8-339 of human Cathepsin B.
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



ICC (Immunocytochemistry)

Confocal imaging of Hep G2 cells using Cathepsin B Rabbit mAb (AAA282997, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



WB (Western Blot)

Western blot analysis of lysates from Hep G2 cells, using Cathepsin B Rabbit mAb (AAA282997) at 1:500 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Enhanced Kit (RM00021). Exposure time: 120s.

ADDITIONAL INFORMATION

Related Product Information for anti-CTSB antibody	This gene encodes a member of the C1 family of peptidases. Alternative splicing of this gene results in multiple transcript variants. At least one of these variants encodes a preproprotein that is proteolytically processed to generate multiple protein products. These products include the cathepsin B light and heavy chains, which can dimerize to form the double chain form of the enzyme. This enzyme is a lysosomal cysteine protease with both endopeptidase and exopeptidase activity that may play a role in protein turnover. It is also known as amyloid precursor protein secretase and is involved in the proteolytic processing of amyloid precursor protein (APP). Incomplete proteolytic processing of APP has been suggested to be a causative factor in Alzheimer's disease, the most common cause of dementia. Overexpression of the encoded protein has been associated with esophageal adenocarcinoma and other tumors. Both Cathepsin B and Cathepsin L are involved in the cleavage of the spike protein from the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) upon its entry to the human host cell. Multiple pseudogenes of this gene have been identified.
Product Categories/Family for anti-CTSB antibody	Cancer; Invasion and Metastasis; Signal Transduction; Cell Biology Developmental Biology; Apoptosis; Cell Adhesion; Cytoskeleton; Extracellular Matrix; Neuroscience; Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GeneID	1508
UniProt Accession #	P07858
Molecular Weight	Calculated MW: 38kDa Observed MW: 39-42kDa
UniProt Protein Name	Cathepsin B
UniProt Gene Name	CTSB
UniProt Synonym Gene Names	CPSB; APPS
UniProt Entry Name	CATB_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cathepsin-b-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/282997>