

Cathepsin B rabbit pAb

Cat No.: ES1869

For research use only

Overview

Product Name Cathepsin B rabbit pAb

Host species Rabbit

Applications WB;IHC;IF;ELISA Species Cross-Reactivity Human;Mouse;Rat

Recommended dilutions Western Blot: 1/500 - 1/2000.

Immunohistochemistry: 1/100 - 1/300. ELISA: 1/5000. Not yet tested in other applications.

Immunogen The antiserum was produced against synthesized

peptide derived from human Cathepsin B. AA

range:168-217

Specificity Cathepsin B Polyclonal Antibody detects

endogenous levels of Cathepsin B protein.

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and

0.02% sodium azide.

Store at -20°C. Avoid repeated freeze-thaw cycles.

Protein Name Cathepsin B

Gene Name CTSB

Cellular localization Lysosome . Melanosome . Secreted, extracellular

space . Apical cell membrane ; Peripheral membrane

protein; Extracellular side. 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). .

Purification The antibody was affinity-purified from rabbit

antiserum by affinity-chromatography using

epitope-specific immunogen.

Clonality Polyclonal
Concentration 1 mg/ml
Observed band 38,40,25kD
Human Gene ID 1508

Human Swiss-Prot Number P07858

Alternative Names CTSB; CPSB; Cathepsin B; APP secretase; APPS;



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Background

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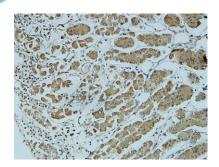
Cathepsin B1

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.

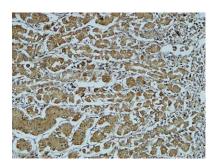
Western Blot analysis of various cells using Cathepsin B Polyclonal Antibody



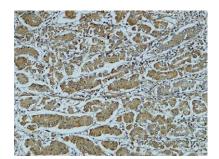




Immunohistochemical analysis of paraffin-embedded Human colon. 1, Antibody was diluted at 1:200(4° overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).



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