

RecomAb™

CTSB recombinant monoclonal antibody, clone R05-1C3

Catalog # RAB06543 Size 100 uL

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human CTSB.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein corresponding to human CTSB.
Theoretical MW (kDa)	Calculated MW: 38 kD
Reactivity	Human
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (1:50-1:100) Immunofluorescence(1:50-1:200) Immunoprecipitation(1:20) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end use.
Storage Buffer	In PBS, 150 mM NaCl, pH 7.4 (50% glycerol and 0.02% Sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation

Gene Info — CTSB

Entrez GeneID [1508](#)

Gene Name CTSB

Gene Alias APPS, CPSB

Gene Description cathepsin B

Omim ID [116810](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The protein encoded by this gene is a lysosomal cysteine proteinase composed of a dimer of disulfide-linked heavy and light chains, both produced from a single protein precursor. 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 disease, the most common cause of dementia. Overexpression of the encoded protein, which is a member of the peptidase C1 family, has been associated with esophageal adenocarcinoma and other tumors. At least five transcript variants encoding the same protein have been found for this gene. [provided by RefSeq]

Other Designations APP secretase|OTTHUMP00000116009|amyloid precursor protein secretase|cathepsin B1|cysteine protease|preprocathepsin B

Pathway

- [Antigen processing and presentation](#)
- [Lysosome](#)

Disease

- [Adenocarcinoma](#)
- [Calcinosis](#)

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)
- [Pancreatitis](#)
- [Prostatic Neoplasms](#)
- [Urinary Bladder Neoplasms](#)