

Recombinant Human CTSB Protein, GST-tagged

Cat. No. CTSB-2099H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human CTSB full-length ORF (AAH10240, 21 a.a. - 339 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
ProteinLength	21-339 aa
Description	<p>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. Multiple pseudogenes of this gene have been identified. [provided by RefSeq, Nov 2015]</p>
Molecular Mass	60.72 kDa

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AA Sequence

PSFHPVSDELVNYVVKRNTTWQAGHNFYNVDMGYLKRLCGTFLGGPKPPQRVMFT
 EDLKLPAFDAREQWPQCPTIKEIRDQGSCGSCWAFGAVEAISDRICHTNAHVSVE
 VSAEDLLCCGSMCGDGCNGGYPAEAWNFWTRKGLVSGGLYESHVGC RPYSIPP
 CEHHVNGSRPPCTGEGDTPKCSKICEPGYSPTYKQDKHYGNSYSVSNSEKDIMAE
 IYKNGPVEGAFSVYSDFLLYKSGVYQHVTGEMMGGHAIRILGWGVENGTPYWLVAN
 SWNTDWGDNGFFKILRGQDHCGIESEVVAGIPRTDQYWEKI

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name [CTSB cathepsin B \[Homo sapiens \]](#)

Official Symbol [CTSB](#)

Synonyms CTSB; cathepsin B; cathepsin B1; APP secretase; cysteine protease; amyloid precursor protein secretase; APPS; CPSB;

Gene ID [1508](#)

mRNA Refseq [NM_001908](#)

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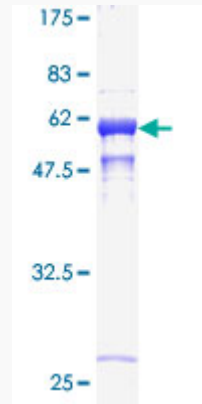
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Protein Refseq NP_001899

MIM 116810

UniProt ID P07858

**Quality Control
Testing:**



12.5% SDS-PAGE Stained with Coomassie Blue.

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