

## Product datasheet for **TA361196**

### Cathepsin B (CTSB) Rabbit Polyclonal Antibody

#### Product data:

|                         |   |
|-------------------------|---|
| Product Type:           | Primary Antibodies  |
| Applications:           | WB  |
| Reactivity:             | Human   |
| Host:                   | Rabbit  |
| Clonality:              | Polyclonal  |
| Immunogen:              | The immunogen is a synthetic peptide directed towards the middle region of human CTSB   |
| Specificity:            | <b>Expected reactivity:</b> Human   |
| Formulation:            | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.<br><i>Note that this product is shipped as lyophilized powder to China customers.</i> |
| Concentration:          | lot specific  |
| Purification:           | Affinity purified   |
| Conjugation:            | Unconjugated  |
| Storage:                | For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.   |
| Stability:              | Shelf life: one year from despatch.   |
| Predicted Protein Size: | 37 kDa  |
| Gene Name:              | cathepsin B   |
| Database Link:          | <a href="#">NP_001899.1</a><br><a href="#">Entrez Gene 1508 Human</a><br><a href="#">P07858</a>   |



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**Background:**

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.

**Synonyms:**

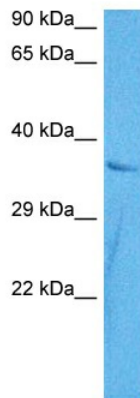
APPS; CPSB

**Protein Families:**

Druggable Genome, Protease

**Protein Pathways:**

Antigen processing and presentation, Lysosome

**Product images:**


Host: Rabbit  
Target Name: CTSB  
Sample Type: HepG2 Cell Lysate  
Antibody Dilution: 1.0µg/ml

Host: Rabbit  
Target Name: CTSB  
Sample Tissue: Human HepG2 Whole Cell lysates  
Antibody Dilution: 1ug/ml