

## Product datasheet for **TA323091**

### Cathepsin B (CTSB) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	IHC: 50-100 Positive control: Human lung cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to a region derived from 80-333 amino acids of human cathepsin B
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	cathepsin B
Database Link:	<a href="#">NP_001899</a> <a href="#">Entrez Gene 13030 Mouse</a> <a href="#">Entrez Gene 64529 Rat</a> <a href="#">Entrez Gene 1508 Human</a> <a href="#">P07858</a>



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**Background:**

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.

**Synonyms:**

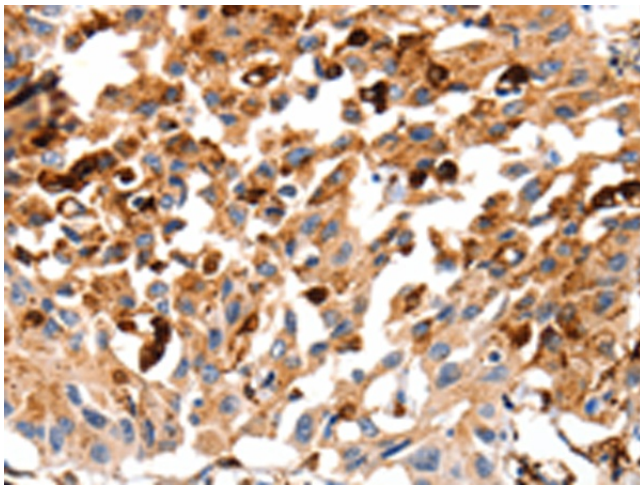
APPS; CPSB

**Protein Families:**

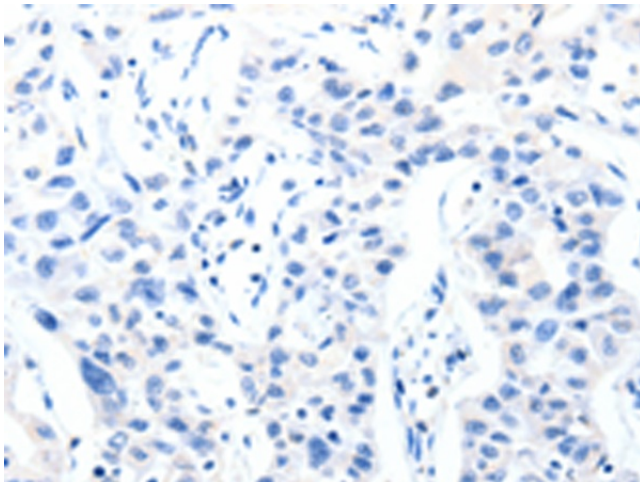
Druggable Genome, Protease

**Protein Pathways:**

Antigen processing and presentation, Lysosome

**Product images:**

Immunohistochemistry of paraffin-embedded Human lung cancer tissue using TA323091 (CTSB Antibody) at dilution 1/35 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human lung cancer tissue using TA323091 (CTSB Antibody) at dilution 1/35, treated with fusion protein. (Original magnification: ×200)