



# Cathepsin B Monoclonal Antibody

Catalog No	BYmab-02527
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	CTSB
Protein Name	Cathepsin B
Immunogen	The antiserum was produced against synthesized peptide derived from human Cathepsin B. AA range:168-217
Specificity	Cathepsin B Monoclonal Antibody detects endogenous levels of Cathepsin B protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Pullty	
Storage Stability	-20°C/1 year
	-20°C/1 year CTSB; CPSB; Cathepsin B; APP secretase; APPS; Cathepsin B1
Storage Stability	·
Storage Stability Synonyms	CTSB; CPSB; Cathepsin B; APP secretase; APPS; Cathepsin B1
Storage Stability Synonyms Observed Band	CTSB; CPSB; Cathepsin B; APP secretase; APPS; Cathepsin B1  38 40 25kD  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
Storage Stability Synonyms Observed Band Cell Pathway	CTSB; CPSB; Cathepsin B; APP secretase; APPS; Cathepsin B1  38

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location:Identified by mass spectrometry in melanosome fractions from stage I to stage IV.,subunit:Dimer of a heavy chain and a light chain cross-linked by a disulfide bond.,

#### **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.

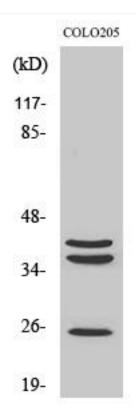
## matters needing attention

Avoid repeated freezing and thawing!

### **Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

### **Products Images**



Western Blot analysis of various cells using Cathepsin B Monoclonal Antibody

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