

For Research Use Only

# Cathepsin B Polyclonal antibody

Catalog Number: 31399-1-AP



## Basic Information

<b>Catalog Number:</b> 31399-1-AP	<b>GenBank Accession Number:</b> NM_001908.5	<b>Purification Method:</b> Antigen affinity Purification
<b>Size:</b> 150ul , Concentration: 270 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 1508	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P07858	
<b>Isotype:</b> IgG	<b>Full Name:</b> cathepsin B	
	<b>Calculated MW:</b> 38kDa	
	<b>Observed MW:</b> 25 kDa and 31 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b> WB : A375 cells, HepG2 cells, RAW 264.7 cells IHC : human lung cancer tissue,
<b>Species Specificity:</b> human, mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

CTSB(Cathepsin B) is also named as CPSB and belongs to the peptidase C1 family. It participates in intracellular degradation and turnover of proteins. Cathepsin B precursors found in human malignant ascites fluid do not possess mannose-rich carbohydrates suggesting that a defect in the post translational processing of carbohydrate moieties on tumor. Cathepsin B exists as both glycosylated and unglycosylated forms(PMID:1637335). In rat macrophages and hepatocytes pro- cathepsin B is 39 kDa (unglycosylated =35 kDa), whereas in human fibroblasts procathepsin B is 44.5-46kDa (unglycosylated=39kDa)(PMID:2097084). It can be detected the 43 kDa form of pro-CTSB, 31 kDa and 25 kDa mature forms in mouse brain by western blot(PMID:20616152).

## Storage

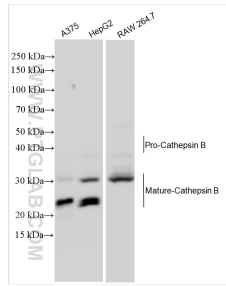
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

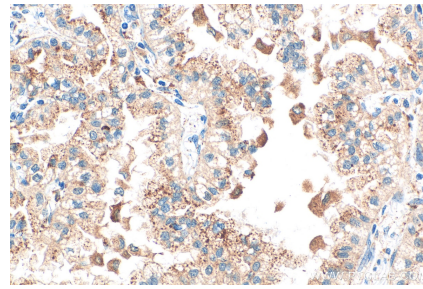
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## Selected Validation Data



A375 cells were subjected to SDS PAGE followed by western blot with 31399-1-AP (Cathepsin B antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 31399-1-AP (Cathepsin B antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).