

For Research Use Only

Cathepsin B Recombinant monoclonal antibody

Catalog Number: 83998-4-RR



Basic Information

Catalog Number:

83998-4-RR

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG1020

GenBank Accession Number:

NM_001908.5

GeneID (NCBI):

1508

UNIPROT ID:

P07858

Full Name:

cathepsin B

Calculated MW:

38kDa

Observed MW:

31 kDa, 43 kDa

Purification Method:

Protein A purification

CloneNo.:

260854C10

Recommended Dilutions:

WB: 1:1000-1:4000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

Applications

Tested Applications:

WB, IP, ELISA

Species Specificity:

human

Positive Controls:

WB : A375 cells, HepG2 cells, HT-1080 cells

IP : HepG2 cells,

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, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

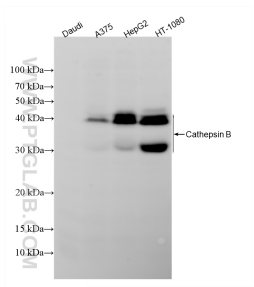
T: 4006900926

E: Proteintech-CN@ptglab.com

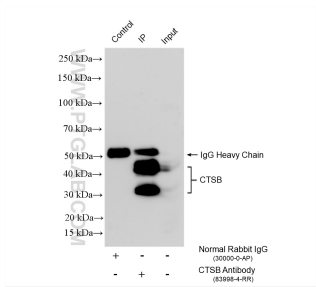
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83998-4-RR (Cathepsin B antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP result of anti-Cathepsin B (IP:83998-4-RR, 4ug; Detection:83998-4-RR 1:600) with HepG2 cells lysate 1280 ug.