

For Research Use Only

Cathepsin B Recombinant monoclonal antibody

Catalog Number: 83998-4-RR



Basic Information

Catalog Number:

83998-4-RR

Size:

100ul , Concentration: 1000 µg/ml by Nanodrop;

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 µg 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

*** 20ul sizes contain 0.1% BSA

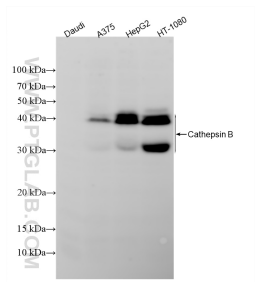
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

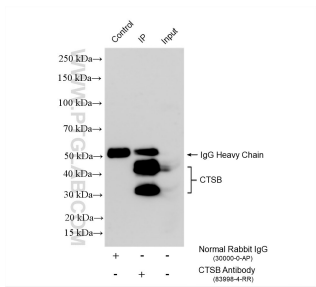
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W: ptglab.com

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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.