

For Research Use Only

Cathepsin B Recombinant monoclonal antibody

Catalog Number: 85841-5-RR



Basic Information

| | | | | | |
|---------------------------|---|---------------------------|----------------|------------------------|---|
| Catalog Number: | 85841-5-RR | GenBank Accession Number: | NM_007798.3 | Purification Method: | Protein A purification |
| Size: | 100ul, Concentration: 1000 µg/ml by Nanodrop; | GenelD (NCBI): | 13030 | CloneNo.: | 243020A5 |
| Source: | Rabbit | UNIPROT ID: | P10605 | Recommended Dilutions: | WB: 1:2000-1:10000 IHC: 1:500-1:2000 IF/ICC: 1:500-1:2000 FC (Intra): 0.25 ug per 10 ⁶ cells in a 100 µl suspension |
| Isotype: | IgG | Full Name: | cathepsin B | | |
| Immunogen Catalog Number: | EG3028 | Calculated MW: | 37 kDa | | |
| | | Observed MW: | 31 kDa, 39 kDa | | |

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), ELISA

Species Specificity:
mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: J774A.1 cells, mouse brain tissue, RAW 264.7 cells, mouse liver tissue

IHC: mouse brain tissue,

IF/ICC: RAW 264.7 cells,

FC (Intra): RAW 264.7 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 39 kDa form of pro-CTSb, 31 kDa mature forms in mouse brain by western blot.

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

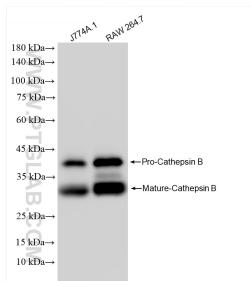
*** 20ul sizes contain 0.1% BSA

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)

E: proteintech@ptglab.com
W: ptglab.com

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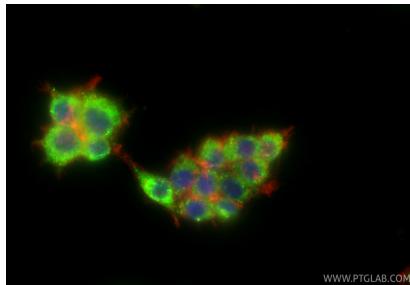
Selected Validation Data



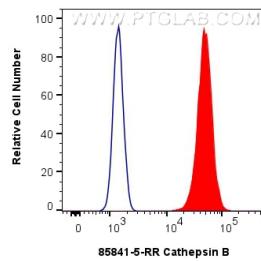
Various lysates were subjected to SDS PAGE followed by western blot with 85841-5-RR (Cathepsin B antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 85841-5-RR (Cathepsin B antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 85841-5-RR (Cathepsin B antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed RAW 264.7 cells using Cathepsin B antibody (85841-5-RR, Clone: 243020A5) at dilution of 1:1000 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.



1x10⁶ RAW 264.7 cells were intracellularly stained with 0.25 ug Cathepsin B Recombinant antibody (85841-5-RR, Clone:243020A5) and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.