

For Research Use Only

Mouse Cathepsin B Recombinant monoclonal antibody, PBS Only

Catalog Number: 85841-5-PBS



Basic Information

Catalog Number:	85841-5-PBS	GenBank Accession Number:	NM_007798.3	Purification Method:	Protein A purification
Size:	100ug, Concentration: 1 mg/ml by Nanodrop;	GenID (NCBI):	13030	CloneNo.:	243020A5
Source:	Rabbit	UNIPROT ID:	P10605		
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), Indirect ELISA

Species Specificity:
mouse

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

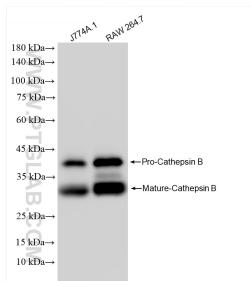
Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

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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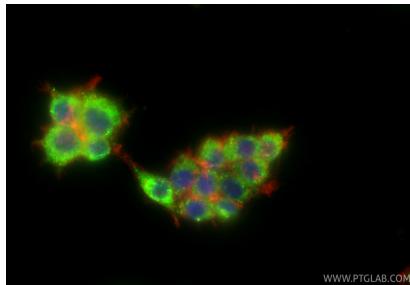
Selected Validation Data



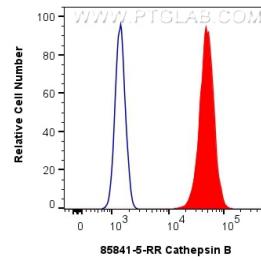
Various lysates were subjected to SDS PAGE followed by western blot with 85841-5-RR (Cathepsin B antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85841-5-PBS in a different storage buffer formulation.

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). This data was developed using the same antibody clone with 85841-5-PBS in a different storage buffer formulation.

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). This data was developed using the same antibody clone with 85841-5-PBS in a different storage buffer formulation.



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), CL594-Phalloidin (red). This data was developed using the same antibody clone with 85841-5-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 85841-5-PBS