

For Research Use Only

CoraLite® Plus 488-conjugated Cathepsin B Recombinant monoclonal antibody

Catalog Number: CL488-85841-5



Basic Information

Catalog Number:	CL488-85841-5	GenBank Accession Number:	NM_007798.3	Purification Method:	Protein A purification
Source:	Rabbit	GenelD (NCBI):	13030	CloneNo.:	243020A5
Isotype:	IgG	UNIPROT ID:	P10605	Recommended Dilutions:	IF/ICC: 1:50-1:500
Immunogen Catalog Number:	EG3028	Full Name:	cathepsin B	Excitation/Emission maxima wavelengths:	493 nm / 522 nm
		Calculated MW:	37 kDa		
		Observed MW:	31 kDa, 39 kDa		

Applications

Tested Applications:	Positive Controls:
IF/ICC	IF/ICC: RAW 264.7 cells,
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 -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
Aliquoting is unnecessary for -20°C storage

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

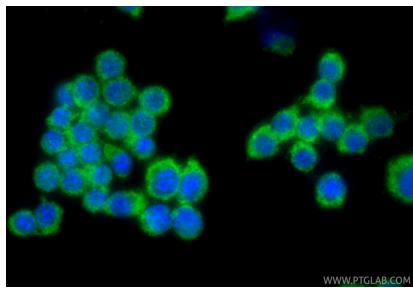
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol)
fixed RAW 264.7 cells using Coralite® Plus 488
Cathepsin B antibody (CL488-85841-5, Clone:
243020A5) at dilution of 1:200.