For Research Use Only

Cathepsin B Polyclonal antibody

Catalog Number:12216-1-AP

Featured Product

70 Publications

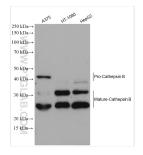
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Basic Information	Catalog Number: 12216-1-AP	GenBank Accession Number: BC010240		Purification Method: Antigen affinity purification	
	Size: 150ul, Concentration: 600 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG2898	GeneID (NCBI): 1508 UNIPROT ID: P07858 Full Name: cathepsin B Calculated MW: 339 aa, 38 kDa Observed MW: 25 kDa, 31 kDa, 43 kDa	1	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:50-1:500 IF/ICC 1:200-1:800	
Applications	Tested Applications:		Positive Cont	rols:	
	WB, IHC, IF/ICC, FC (Intra), ELISA		WB : A375 cells, HepG2 cells, HT-1080 cells		
	Cited Applications: WB, IHC, IF		IHC : human ovary tumor tissue, human breast cance tissue		
	Species Specificity: human		IF/ICC : A375	cells,	
	Cited Species: human, mouse, rat, pig, bovine, frog				
	Note-IHC: suggested antigen ı TE buffer pH 9.0; (*) Alternati retrieval may be performed w buffer pH 6.0	vely, antigen			
Background Information	degradation and turnover of proteins mannose-rich carbohydrates suggest on tumor. Cathepsin B exists as both and hepatocytes pro- cathepsin B is 3	Cathepsin B precursors ing that a defect in the p glycosylated and unglyc 9 kDa (unglycosylated = a)(PMID:2097084). It car	found in huma oost translation cosylated form =35 kDa), where n be detected to	family. It participates in intracellular n malignant ascites fluid do not posse: al processing of carbohydrate moieties s(PMID:1637335). In rat macrophages eas in human fibroblasts procathepsin he 43 kDa form of pro-CTSB, 31 kDa and	
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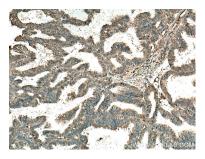
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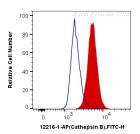
Selected Validation Data



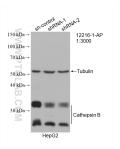
Various lysates were subjected to SDS PAGE followed by western blot with 12216-1-AP (Cathepsin B antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



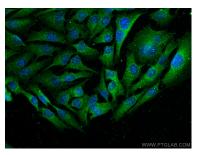
Immunohistochemical analysis of paraffinembedded human ovary tumor tissue slide using 12216-1-AP (Cathepsin B antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10^6 MCF-7 cells were intracellularly stained with 0.2 ug Anti-Human Cathepsin B (12216-1-AP) and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit I gG(H+L) at dilution 1:1000 (red), or 0.2 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



WB result of Cathepsin B antibody (12216-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Cathepsin B transfected HepG2 cells.



Immunofluorescent analysis of (-20°C Ethanol) fixed A375 cells using Cathepsin B antibody (12216-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).