For Research Use Only

Cathepsin L Polyclonal antibody

Catalog Number:27952-1-AP

Featured Product

7 Publications

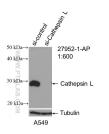


Basic Information	Catalog Number: 27952-1-AP	GenBank Accession BC012612	n Number:	Purification Method: Antigen affinity purification	
	Concentration:	GenelD (NCBI): 1514 UNIPROT ID:		Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500	
	450 μg/ml Source:				
	RabbitP07711Isotype:Full Name:IgGcathepsin L1				
	Immunogen Catalog Number: AG27813	Calculated MW: 38 kDa			
		Observed MW: 36-39 kDa, 29 kDa			
Applications	Tested Applications: WB, IHC, ELISA				
	WB: A549 cells, Cited Applications: WB, IHC, IF				
	Species Specificity: Human, mouse				
	Cited Species: human, mouse				
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0				
Background Information	CTSL1(Cathepsin L1) is also named as CTSL and MEP, belongs to the peptidase C1 family. It is a lysosomal proteinase whose expression is also up-regulated in the skeletal muscle during starvation(PMID:20088826). It plays an intracellular role in normal intestinal epithelial polarization and initiation of neoplasia(PMID:17622569). CTSL1 also improves cardiac function and inhibits cardiac hypertrophy, inflammation, and fibrosis through blocking AKT/GSK3B signaling(PMID:19096818). The full length protein is 38 kDa with a signal peptide, two propeptide and a glycosylation site. It has been detected the 36 kDa, 39 kDa, 29 kDa and 21 kDa in rat gastrocnemius muscle. These forms of cathepsin L could either be attributed to differences in glycosylation or to partial processing of the proenzyme. (PMID:11696001)				
Notable Publications	Author	Pubmed ID Jou	urnal	Application	
	Huixia Fan		ont Pharmacol	IHC	
	Xueying Wang	39893643 J C	ell Mol Med	WB,IHC,IF	
	Minghao Sui	39842473 Ph	armacol Res	WB	
	Storage:	ar after shipment.			

For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

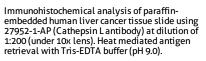
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

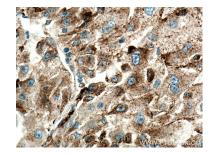
Selected Validation Data





WB result of Cathepsin L antibody (27952-1-AP; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-Cathepsin L transfected A549 cells.





Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 27952-1-AP (Cathepsin L antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



A549 cells were subjected to SDS PAGE followed by western blot with 27952-1-AP (Cathepsin L antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.