For Research Use Only

Cathepsin D Polyclonal antibody

Catalog Number:55021-1-AP 9 Publications

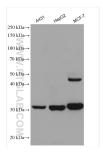


Basic Information	Catalog Number: 55021-1-AP	GenBank Accession Numb NM_001909	er: Purification Metho Antigen affinity p		
	Size: 150ul , Concentration: 650 ug/ml by Nanodrop and 473 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI):	• •	Recommended Dilutions:	
		1509		WB 1:1000-1:6000 IHC 1:50-1:500	
		UNIPROT ID: P07339	IHC 1:50-1:500		
	Source: Rabbit	Full Name: cathepsin D Calculated MW: 45 kDa			
	Isotype: IgG				
					Observed MW: 32 kDa
		Applications	Tested Applications: WB, IHC, ELISA	WB : A431 cells, HepG2 cells, MCF-7 cells	
Cited Applications:					
WB, IF	IHO		C : human liver tissue,		
Species Specificity: human, mouse					
Cited Species: human, mouse, pig					
Note-IHC: suggested antigen r TE buffer pH 9.0; (*) Alternativ retrieval may be performed w buffer pH 6.0	vely, antigen				
Background Information	CTSD (Cathepsin D) is also named as CPSD, belongs to the peptidase A1 family. It is ubiquitously expressed and is involved in proteolytic degradation, cell invasion, and apoptosis. Human CTSD is synthesized as a 52-kDa precursor that is converted into an active 48-kDa single-chain intermediate in the endosomes, and then into a fully active mature form, composed of a 34-kDa heavy chain and a 14-kDa light chain, in the lysosomes. It is a lysosomal acid protease found in neutrophils and monocytes and involved in the pathogenesis of several diseases such as breast cancer and possibly Alzheimer disease. (PMID: 27114232, PMID: 30717773, PMID: 30051532)				
Notable Publications	Author Pub	omed ID Journal		Application	
	Weigang Yuan 361	.83552 Biochem B	iophys Res Commun	WB	
	Suman Rimal 346	63454 Acta Neuro	opathol Commun	IF	
	Pengyun Li 343	26318 Cell Death	Discov	WB	
Storage	Storage: Store at -20°C. Stable for one year aft Storage Buffer: PBS with 0.02% sodium azide and 50				

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.comW: ptglab.com

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Selected Validation Data





Various lysates were subjected to SDS PAGE followed by western blot with 55021-1-AP (Cathepsin D antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. Immunohistochemical analysis of paraffinembedded human liver tissue slide using 55021-1-AP (Cathepsin D antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).