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Cathepsin D Monoclonal antibody Catalog Number:66534-1-Ig Featured Product 8 Publications

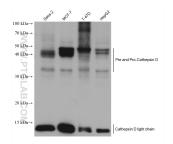
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Basic Information	Catalog Number: 66534-1-lg	GenBank Accession Number: BC016320		Purification Method: Protein A purification			
	Size:	GeneID (NCBI):		CloneNo.:			
	150ul , Concentration: 1000 µg/ml by	1509		2F6F7			
	Nanodrop; Source: Mouse Isotype: IgG2b Immunogen Catalog Number: AG15254	UNIPROT ID: P07339 Full Name: cathepsin D		Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000 IF/ICC 1:200-1:800			
					Calculated MW: 412 aa, 45 kDa		
					Observed MW:		
					32 kDa, 48 kDa, 52	3 kDa, 52 kDa	
		Applications	Tested Applications:		Positive Con	rols:	
			WB, IHC, IF/ICC, FC (Intra), ELISA		WB: Saos-2 c	s-2 cells, MCF-7 cells, T-47D cells, HepG2 cel	
			Cited Applications: WB, IHC, IF		IHC : human liver cancer tissue, H tissue		
Species Specificity: human			IF/ICC : HepG2 cells,				
Cited Species: human, rat							
Note-IHC: suggested antigen r. TE buffer pH 9.0; (*) Alternativ retrieval may be performed w buffer pH 6.0	vely, antigen						
	CTSD (Cathepsin D) also named 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).						
Background Information	involved in proteolytic degradation, of that is converted into an active 48-kD mature form, composed of a 34-kDa h protease found in neutrophils and mo	a single-chain inten eavy chain and a 14 nocytes and involve	mediate in the en -kDa light chain, ed in the pathoger	dosomes, and then into a fully active in the lysosomes. It is a lysosomal aci nesis of several diseases such as breas			
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For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com

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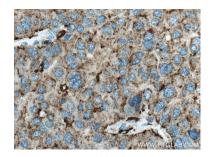
Selected Validation Data



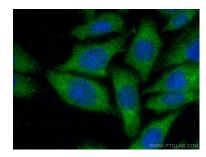
Various lysates were subjected to SDS PAGE followed by western blot with 66534-1-1g (Cathepsin D antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



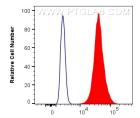
Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 66534-1-Ig (Cathepsin D antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 66534-1-1g (Cathepsin D antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using Cathepsin D antibody (66534-1-1g, Clone: 2F6F7) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



66534-1-Ig Cathepsin D(2F6F7)

1X10^6 HepG2 cells were intracellularly stained with 0.4 ug Anti-Human Cathepsin D (66534-1-1g, Clone:2F6F7) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG2b Isotype Control (MPC-11) (65128-1-1g, Clone: MPC-11) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 66534-1-1g (Cathepsin D antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).