## For Research Use Only

## Cathepsin D Monoclonal antibody

Catalog Number:66534-1-lg Featured Product

8 Publications

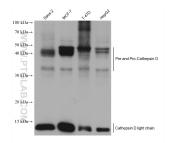


Basic Information	Catalog Number: 66534-1-lg	GenBank Accession BC016320	n Number:	Purification Method: Protein A purification	
	Size: 1000 μg/ml	GeneID (NCBI): 1509		CloneNo.: 2F6F7	
	Source: Mouse	UNIPROT ID: P07339		Recommended Dilutions: WB 1:5000-1:50000	
	lsotype: IgG2b	Full Name: cathepsin D		IHC 1:500-1:2000 IF 1:200-1:800	
	Immunogen Catalog Number: AG15254	Calculated MW: 412 aa, 45 kDa			
		Observed MW: 32 kDa, 48 kDa, 52 kDa			
Applications	Tested Applications: WB, IF/ICC, IHC, ELISA		Positive Controls:		
	Cited Applications: IHC : IHC :		WB: Saos-2	WB : Saos-2 cells, MCF-7 cells, T-47D cells, HepG2 cell	
			IHC : human tissue	uman liver cancer tissue, human breast cancer	
	Species Specificity: Human		IF : HepG2 ce	ells,	
	Cited Species: human, rat				
	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	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	Pubmed ID Jo	urnal	Application	
	Zhiyuan Wu		e (Basel)	WB,IF	
	-	36448495 FE	BS Lett	IF	
	Hualin Fu				
	Hualin Fu Peipei Ding		ll Rep	WB	

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

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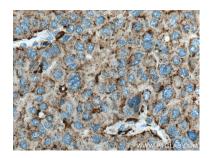
## Selected Validation Data



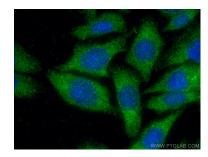
Various lysates were subjected to SDS PAGE followed by western blot with 66534-1-1g (Cathepsin D antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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-Ig (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-Ig, Clone: 2F6F7) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).