

For Research Use Only

Cathepsin A Polyclonal antibody

Catalog Number: 15020-1-AP **6 Publications**



Basic Information

Catalog Number: 15020-1-AP	GenBank Accession Number: BC000597	Purification Method: Antigen affinity purification
Size: 650 µg/ml	GeneID (NCBI): 5476	Recommended Dilutions: WB 1:500-1:3000 IHC 1:750-1:3000
Source: Rabbit	UNIPROT ID: P10619	
Isotype: IgG	Full Name: cathepsin A	
Immunogen Catalog Number: AG7073	Calculated MW: 54 kDa	
	Observed MW: 54-60, 32, 20 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : A549 cells, Sp2/0 cells, PC-3 cells, DU 145 cells IHC : human liver tissue, human breast cancer tissue, rat kidney tissue
Cited Applications: FC, IHC, WB	
Species Specificity: human, mouse, rat	
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

CTSA is also named as PPGB(protective protein for beta-galactosidase), PPCA(protective protein cathepsin A), cathepsin A, carboxypeptidase C, carboxypeptidase L and belongs to the peptidase S10 family. It is a ubiquitously expressed multifunctional enzyme, with deamidase, esterase, and carboxypeptidase activities and a preference for substrates with hydrophobic amino acid residues at the P1-prime position. It can be cleaved into the following 2 chains and defects in CTSA are the cause of galactosialidosis (GSL). This protein has 2 glycosylation sites. CTSA is synthesized as a 54-kDa precursor protein and composed of 32- and 20-kDa subunits linked together by disulfide bonds(PMID: 16461364,19574551).

Notable Publications

Author	Pubmed ID	Journal	Application
David H Allendorf	35693885	Front Cell Neurosci	WB
Huaxiang Wang	34272452	Sci Rep	IHC
Yan You	29452206	J Hepatol	WB

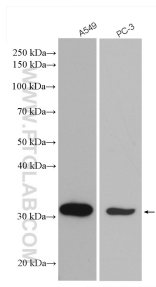
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

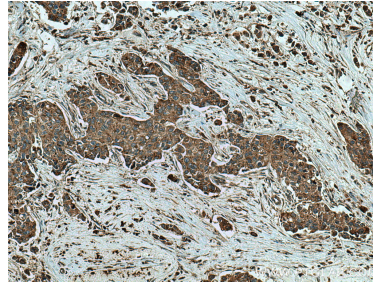
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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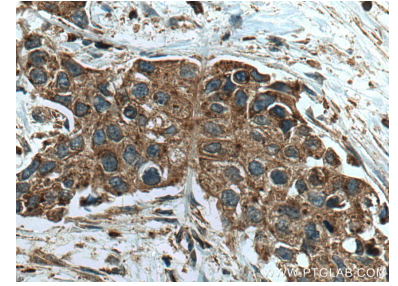
Selected Validation Data



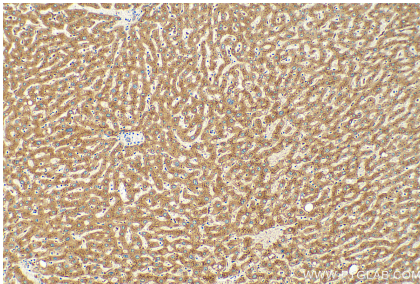
Various lysates were subjected to SDS PAGE followed by western blot with 15020-1-AP (Cathepsin A antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



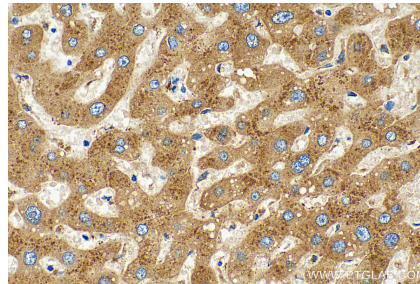
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 15020-1-AP (Cathepsin A antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



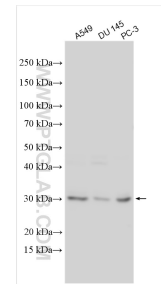
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 15020-1-AP (Cathepsin A antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



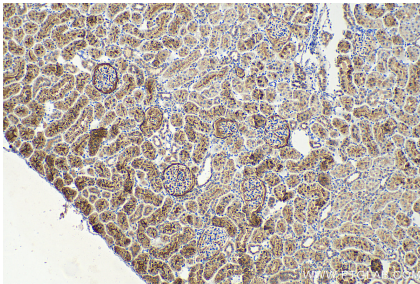
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 15020-1-AP (Cathepsin A antibody) at dilution of 1:1500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



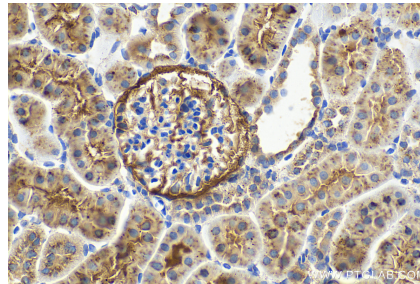
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 15020-1-AP (Cathepsin A antibody) at dilution of 1:1500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 15020-1-AP (Cathepsin A antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 15020-1-AP (Cathepsin A antibody) at dilution of 1:1500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 15020-1-AP (Cathepsin A antibody) at dilution of 1:1500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).