For Research Use Only

Cathepsin A Polyclonal antibody

Catalog Number: 15020-1-AP 8 Publications



Basic Information

Catalog Number: 15020-1-AP

Size: 650 μg/ml Source: Rabbit Isotype:

Immunogen Catalog Number:

AG7073

Observed MW: 54-60, 32, 20 kDa

BC000597

5476

P10619 Full Name:

54 kDa

GeneID (NCBI):

UNIPROT ID:

cathepsin A Calculated MW:

GenBank Accession Number:

Purification Method:

Antigen affinity purification

Recommended Dilutions: WB 1:500-1:3000 IHC 1:750-1:3000

Applications

Tested Applications: WB, IHC, ELISA Cited Applications: WB, IHC

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

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

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

Store at -20°C. Stable for one year after shipment.

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

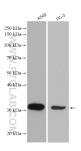
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

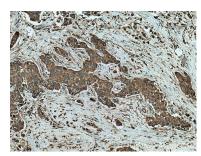
T: 4006900926 E: Proteintech-CN@ptglab.com

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

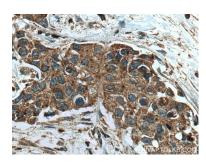
Selected Validation Data



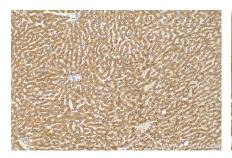
Various lysates were subjected to SDS PAGE followed by western blot with 15020-1-AP (Cathepsin A antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



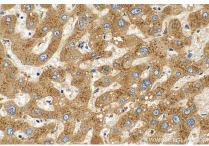
Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 15020-1-AP (Cathepsin A antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



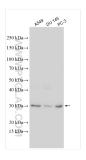
Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 15020-1-AP (Cathepsin A antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



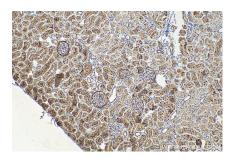
Immunohistochemical analysis of paraffinembedded human liver tissue slide using 15020-1-AP (Cathepsin A antibody) at dilution of 1:1500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



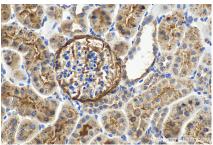
Immunohistochemical analysis of paraffinembedded human liver tissue slide using 15020-1-AP (Cathepsin A antibody) at dilution of 1:1500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 paraffinembedded 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 paraffinembedded 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).