

For Research Use Only

Catalase Polyclonal antibody

Catalog Number: 21260-1-AP

Featured Product

164 Publications



Basic Information

Catalog Number:

21260-1-AP

Concentration:

550 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG15383

GenBank Accession Number:

BC112219

GeneID (NCBI):

847

UNIPROT ID:

P04040

Full Name:

catalase

Calculated MW:

60 kDa

Observed MW:

60 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:16000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:250-1:1000

Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, pig, chicken, bovine, goat, sheep, bat, meretrix meretrix

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: HeLa cells, rat liver tissue, Raji cells, Jurkat cells, HepG2 cells, L02 cells, mouse liver tissue

IP: HeLa cells,

IHC: human liver cancer tissue, human hepatocirrhosis tissue

Background Information

Catalase belongs to the catalase family. CAT occurs in almost all aerobically respiring organisms and serves to protect cells from the toxic effects of hydrogen peroxide. CAT promotes the growth of cells including T-cells, B-cells, myeloid leukemia cells, melanoma cells, mastocytoma cells, and normal and transformed fibroblast cells. CAT catalyzes the reaction: $2 \text{H}_2\text{O}_2 = \text{O}_2 + 2 \text{H}_2\text{O}$. Defects in CAT are the cause of acatalasia (ACATLAS) which is also known as acatalasemia.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|------------|-----------|----------------------|-------------|
| Wei Cai | 36170234 | Autophagy | IF |
| Lin-Yu Jin | 36164394 | Oxid Med Cell Longev | WB |
| Hong Zou | 36139126 | Biomolecules | WB |

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

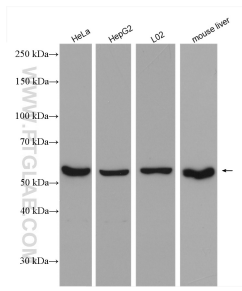
T: 4006900926

E: Proteintech-CN@ptglab.com

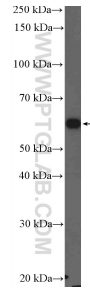
W: ptgcn.com

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

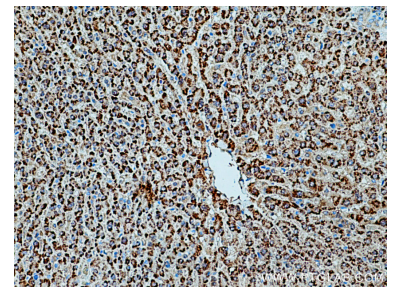
Selected Validation Data



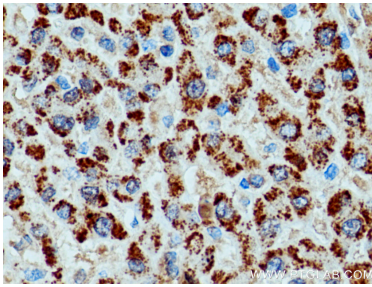
Various lysates were subjected to SDS PAGE followed by western blot with 21260-1-AP (Catalase antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



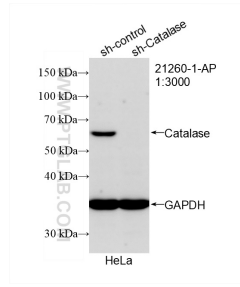
Jurkat cells were subjected to SDS PAGE followed by western blot with 21260-1-AP (Catalase Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



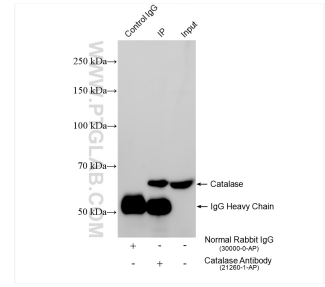
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 21260-1-AP (Catalase antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 21260-1-AP (Catalase antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of Catalase antibody (21260-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Catalase transfected HeLa cells.



IP result of anti-Catalase (IP:21260-1-AP, 4ug; Detection:21260-1-AP 1:10000) with HeLa cells lysate 1280 ug.