

# CAT Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP8623c

## Product Information

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<b>Application</b>	IHC-P, FC, WB, E
<b>Primary Accession</b>	<a href="#">P04040</a>
<b>Other Accession</b>	<a href="#">P04762</a> , <a href="#">O62839</a> , <a href="#">P24270</a> , <a href="#">Q9PT92</a> , <a href="#">P00432</a>
<b>Reactivity</b>	Human, Mouse
<b>Predicted</b>	Bovine, Zebrafish, Mouse, Pig, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB21613
<b>Calculated MW</b>	59756
<b>Antigen Region</b>	152-180

## Additional Information

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<b>Gene ID</b>	847
<b>Other Names</b>	Catalase, CAT
<b>Target/Specificity</b>	This CAT antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 152-180 amino acids from the Central region of human CAT.
<b>Dilution</b>	IHC-P~~1:100~500 FC~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	CAT Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	CAT
<b>Function</b>	Catalyzes the degradation of hydrogen peroxide (H <sub>2</sub> O <sub>2</sub> ) generated by peroxisomal oxidases to water and oxygen, thereby protecting cells from the

toxic effects of hydrogen peroxide (PubMed:[7882369](#)). Promotes growth of cells including T-cells, B-cells, myeloid leukemia cells, melanoma cells, mastocytoma cells and normal and transformed fibroblast cells (PubMed:[7882369](#)).

## Cellular Location

Peroxisome matrix

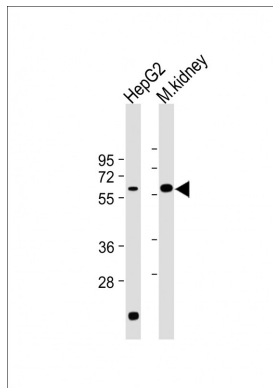
## Background

CAT occurs in almost all aerobically respiring organisms and serves to protect cells from the toxic effects of hydrogen peroxide. It promotes growth of cells including T-cells, B-cells, myeloid leukemia cells, melanoma cells, mastocytoma cells and normal and transformed fibroblast cells.

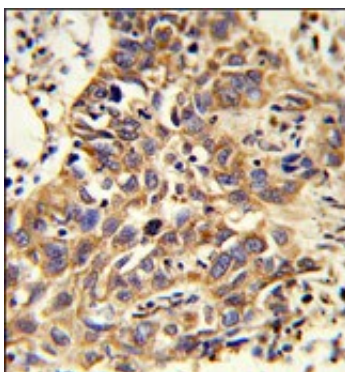
## References

Oh,J.H., et.al., Mamm. Genome 16 (12), 942-954 (2005)

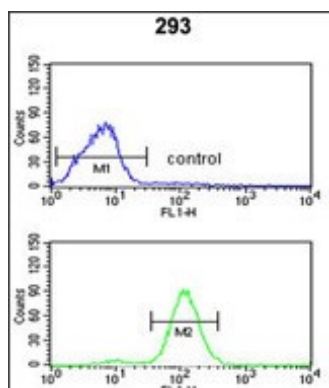
## Images



All lanes : Anti-CAT Antibody (Center) at 1:2000 dilution  
Lane 1: HepG2 whole cell lysate Lane 2: Mouse kidney lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 60 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human lung carcinoma reacted with CAT Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



CAT Antibody (Center) (Cat. #AP8623c) flow cytometric analysis of 293 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

## Citations

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- [Cardiac fatty acid uptake and metabolism in the rat model of polycystic ovary syndrome.](#)
- [The expression and activity of antioxidant enzymes in the liver of rats exposed to high-fructose diet in period from weaning to adulthood.](#)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.