

**CAT Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP8623c**

**Specification**

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**CAT Antibody (Center) - Product Information**

|                   |  |
|-------------------|--|
| Application       | WB, IHC-P, FC,E  |
| Primary Accession | <a href="#">P04040</a>   |
| Other Accession   | <a href="#">P04762</a> , <a href="#">O62839</a> , <a href="#">P24270</a> , <a href="#">O9PT92</a> , <a href="#">P00432</a> |
| Reactivity        | Human, Mouse   |
| Predicted         | Bovine, Zebrafish, Pig, Rat  |
| Host              | Rabbit   |
| Clonality         | Polyclonal   |
| Isotype           | Rabbit IgG   |
| Antigen Region    | 152-180  |

**CAT Antibody (Center) - Additional Information**

**Gene ID** 847

**Other Names**

Catalase, CAT

**Target/Specificity**

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.

**Dilution**

WB~~1:2000  
IHC-P~~1:50~100  
FC~~1:10~50

**Format**

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.

**Storage**

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.

**Precautions**

CAT Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**CAT Antibody (Center) - Protein Information**

**Name** CAT

**Function** 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

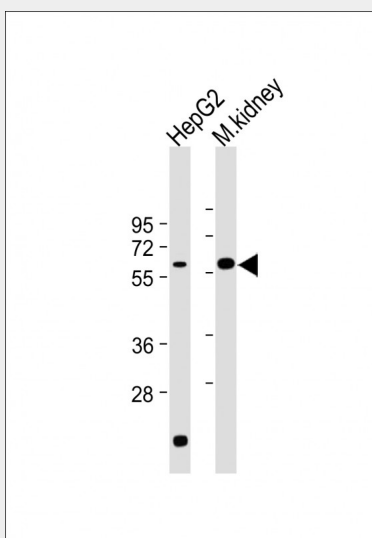
Peroxisome matrix

### CAT Antibody (Center) - Protocols

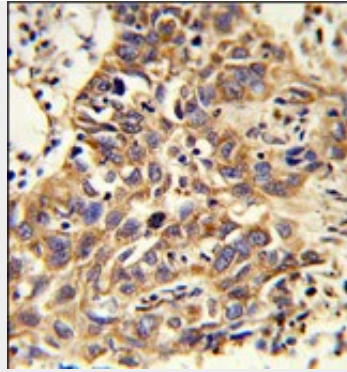
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

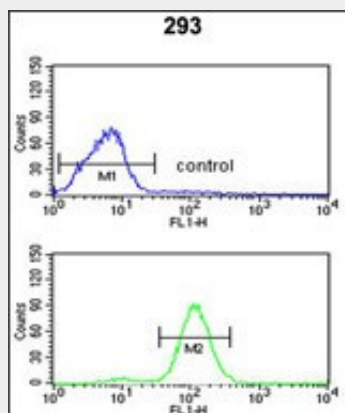
### CAT Antibody (Center) - Images



All lanes : Anti-CAT Antibody (Center) at 1:2000 dilution Lane 1: HepG2 whole cell lysate Lane 2: Mouse kidney lysate 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.

### CAT Antibody (Center) - 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.

### CAT Antibody (Center) - References

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

### CAT Antibody (Center) - Citations

- [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.](#)