

**CAT Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP8623c****Specification**

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**CAT Antibody (Center) Blocking Peptide - Product Information**Primary Accession [P04040](#)**CAT Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 847**Other Names**  
Catalase, CAT**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP8623c](/products/AP8623c) was selected from the Center region of human CAT. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**CAT Antibody (Center) Blocking Peptide - 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](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/7882369)).

**Cellular Location**

Peroxisome

## **CAT Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

## **CAT Antibody (Center) Blocking Peptide - Images**

## **CAT Antibody (Center) Blocking Peptide - 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) Blocking Peptide - References**

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