

**Catalase Antibody**  
**Rabbit mAb**  
**Catalog # AP91213****Specification**

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**Catalase Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P04040</a>
Reactivity	Rat
Clonality	Monoclonal
<b>Other Names</b>	
Cas1; CAT; Catalase; Cs1;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	59756 Da

**Catalase Antibody - Additional Information**

Purification	<b>Affinity-chromatography</b>
Immunogen	<b>A synthesized peptide derived from human Catalase</b>
Description	<b>Catalase catalyzes the conversion of hydrogen peroxide to water and oxygen. Research studies show that overexpression of this antioxidant enzyme increases the ability of pancreatic <math>\beta</math>-cells to scavenge reactive oxygen species (ROS), thereby protecting pancreatic <math>\beta</math>-cells from oxidative stress.</b>
Storage Condition and Buffer	<b>Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.</b>

**Catalase Antibody - 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**

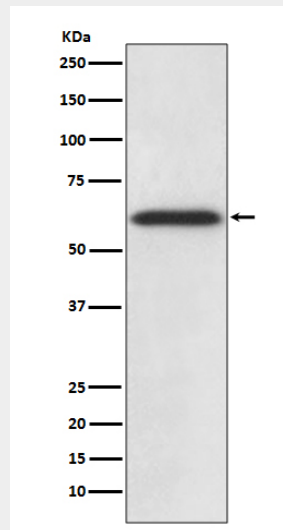
Peroxisome matrix

### Catalase Antibody - 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](#)

### Catalase Antibody - Images



Western blot analysis of Catalase expression in HepG2 cell lysate.