

**KD-Validated Anti-Catalase Rabbit Monoclonal Antibody**  
**Rabbit monoclonal antibody**  
**Catalog # AGI1802****Specification**

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**KD-Validated Anti-Catalase Rabbit Monoclonal Antibody - Product Information**

|                   |                                                                        |
|-------------------|------------------------------------------------------------------------|
| Application       | WB, FC                                                                 |
| Primary Accession | <a href="#">P04040</a>                                                 |
| Reactivity        | Rat, Human                                                             |
| Clonality         | Monoclonal                                                             |
| Isotype           | Rabbit IgG                                                             |
| Calculated MW     | Predicted, 60 kDa, observed, 60 kDa kDa                                |
| Gene Name         | CAT                                                                    |
| Aliases           | CAT; Catalase; EC 1.11.1.6; Epididymis Secretory Sperm Binding Protein |
| Immunogen         | Recombinant protein of mouse Catalase (UniProt Entry: P24270)          |

**KD-Validated Anti-Catalase Rabbit Monoclonal Antibody - Additional Information**

|                         |     |
|-------------------------|-----|
| Gene ID                 | 847 |
| <b>Other Names</b>      |     |
| Catalase, 1.11.1.6, CAT |     |

**KD-Validated Anti-Catalase Rabbit Monoclonal 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:<a href="http://www.uniprot.org/citations/7882369" target="\_blank">7882369</a>). Promotes growth of cells including T-cells, B-cells, myeloid leukemia cells, melanoma cells, mastocytoma cells and normal and transformed fibroblast cells (PubMed:<a href="http://www.uniprot.org/citations/7882369" target="\_blank">7882369</a>).

**Cellular Location**

Peroxisome matrix

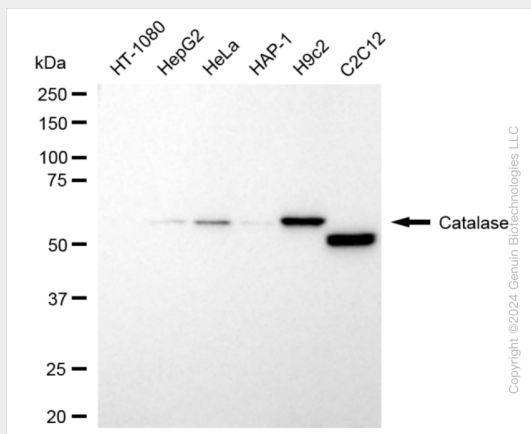
**KD-Validated Anti-Catalase Rabbit Monoclonal Antibody - Protocols**

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

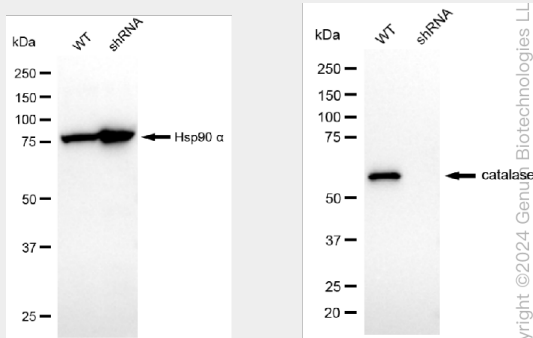
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

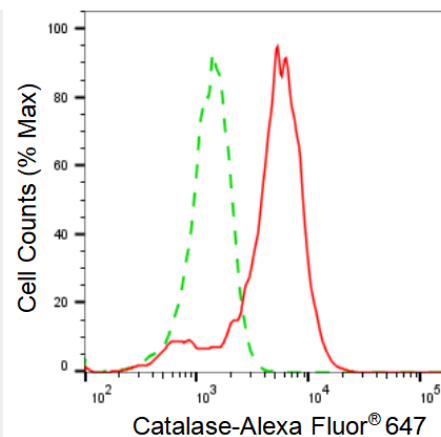
## KD-Validated Anti-Catalase Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-catalase antibody (Cat#AGI1802). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-catalase antibody (Cat#AGI1802, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-catalase antibody (Cat#AGI1802). Catalase expression in wild type (WT) and catalase (CAT) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-catalase antibody (Cat#AGI1802, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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Flow cytometric analysis of catalase expression in H9c2 cells using anti-catalase antibody (Cat#AGI1802, 1:2,000). Green, isotype control; red, catalase.