

RK05630

Leader in Biomolecular Solutions for Life Science



# [One Step] Catalase Antibody Kit

Catalog No.: RK05630

## Basic Information

### Applications

### Cross-Reactivity

Human, Mouse, Rat

### Observed MW

60kDa

### Calculated MW

60kDa

### Category

Antibody kit

## Background

This gene encodes catalase, a key antioxidant enzyme in the body's defense against oxidative stress. Catalase is a heme enzyme that is present in the peroxisome of nearly all aerobic cells. Catalase converts the reactive oxygen species hydrogen peroxide to water and oxygen and thereby mitigates the toxic effects of hydrogen peroxide. Oxidative stress is hypothesized to play a role in the development of many chronic or late-onset diseases such as diabetes, asthma, Alzheimer's disease, systemic lupus erythematosus, rheumatoid arthritis, and cancers. Polymorphisms in this gene have been associated with decreases in catalase activity but, to date, acatalasemia is the only disease known to be caused by this gene.

## Product Information

### Source

Rabbit

### Purification

### Storage

Avoid repeated freeze-thaw cycles.

## Contact



[www.abclonal.com](http://www.abclonal.com)

## Component & Recommended Dilutions

Catalog No.	Product Name	Dilutions
RK05630-1	Catalase Rabbit pAb	60kDa
RK05630-2	HRP-conjugated Goat anti-Rabbit IgG (H+L)	60kDa

## Immunogen Information

### Gene ID

847

### Swiss Prot

P04040

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 1-225 of human Catalase (NP\_001743.1).

### Synonyms

CAT; catalase; MGC138422; MGC138424; Catalase