

A Reliable Research Partner in Life Science and Medicine

# **Recombinant Catalase Monoclonal Antibody**

catalog number: AN301085L

Note: Centrifuge before opening to ensure complete recovery of vial contents.

#### **Description**

Reactivity Human; Mouse; Rat

Immunogen Recombinant Human Catalase protein

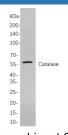
HostRabbitIsotypeIgG,κCloneB840PurificationProtein A

Buffer PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

### Applications Recommended Dilution

**IHC** 1:200-1000 **WB** 1:1000-5000

#### **Data**



2014

Western Blot with Recombinant Catalase Monoclonal Antibody at dilution of 1:1000 dilution. Lane A: Hela cells.

Observed-MW:60 kDa

Immunohistochemistry of paraffin-embedded human brain tissue using Recombinant Catalase Monoclonal Antibody at dilution of 1:200.

## Calculated-MW:60 kDa

## **Preparation & Storage**

Storage Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

Shipping lce bag

### **Background**

This gene encodes catalase, a key antioxidant enzyme in the bodies 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.

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