

Catalase Rabbit mAb

Catalog No.: A11220 **Recombinant** **7 Publications**

Basic Information

Observed MW

60kDa/

Calculated MW

60kDa

Category

Primary antibody

Applications

ELISA,WB,IHC-P

Cross-Reactivity

Mouse, Rat

CloneNo number

ARC0550

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.

Recommended Dilutions

WB	1:500 - 1:2000
IHC-P	1:50 - 1:200

Immunogen Information

Gene ID

847

Swiss Prot

P04040

Immunogen

A synthetic peptide corresponding to a sequence within amino acids 1-100 of human Catalase (P04040).

Synonyms

CAT; catalase; Catalase

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

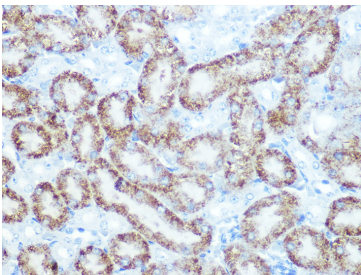
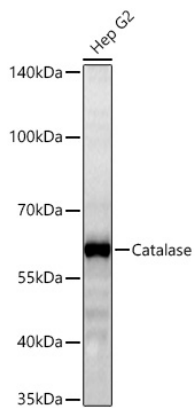
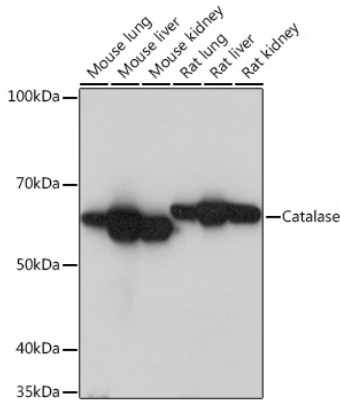
Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

Validation Data



Immunohistochemistry analysis of paraffin-embedded Mouse kidney using Catalase Rabbit mAb (A11220) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.