

Catalase Rabbit pAb

Catalog No.: A11777

Basic Information

Catalog No.

A11777

Observed MW

60kDa

Calculated MW

59kDa

Category

Primary antibody

Applications

WB, IHC, IF

Cross-Reactivity

Human, Mouse, Rat

Recommended Dilutions

WB	1:500 - 1:2000
IHC	1:50 - 1:100
IF	1:50 - 1:100

Contact

 | www.abclonal.com

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.

Immunogen Information

Gene ID	Swiss Prot
847	P04040

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 1-225 of human Catalasealase (NP_001743.1).

Synonyms

CAT;catalase;MGC138422;MGC138424

Product Information

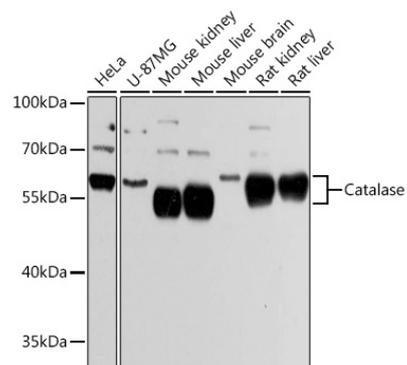
Source	Isotype	Purification
Rabbit	IgG	Affinity purification

Storage

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

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

Validation Data



Western blot analysis of extracts of various cell lines, using Catalasealase Antibody (A11777) at 1:3000 dilution.

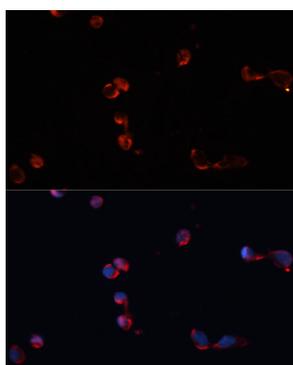
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25ug per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 5s.



Immunofluorescence analysis of HeLa cells using Catalasealase antibody (A11777) at dilution of 1:100. Blue: DAPI for nuclear staining.