

Product datasheet

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ARG55067 anti-Catalase antibody

Package: 50 μl Store at: -20°C

Summary

Product Description Mouse Monoclonal antibody recognizes Catalase

Tested Reactivity Hu, Ms

Predict Reactivity Bov, Rat, Pig, Zfsh

Tested Application WB

Host Mouse

Clonality Monoclonal
Clone 626CT4.3.8

Isotype IgG2a
Target Name Catalase

Species Human

Immunogen KLH-conjugated synthetic peptide corresponding to aa. 152-180 (Center) of Human Catalase.

Conjugation Un-conjugated

Alternate Names Catalase; EC 1.11.1.6

Application Instructions

Application table	Application	Dilution
	WB	1:100 - 1:1600

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations

should be determined by the scientist.

Positive Control K562

Properties

Form Liquid

Buffer Crude Ascites and 0.09% (W/V) Sodium azide

Preservative 0.09% (W/V) Sodium azide

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links GenelD: 12359 Mouse

GeneID: 847 Human

Swiss-port # P04040 Human

Swiss-port # P24270 Mouse

Gene Symbol CAT

Gene Full Name catalase

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. [provided by RefSeq, Oct 2009]

Function Occurs in almost all aerobically respiring organisms and serves to protect cells from the toxic effects of

hydrogen peroxide. Promotes growth of cells including T-cells, B-cells, myeloid leukemia cells, melanoma cells, mastocytoma cells and normal and transformed fibroblast cells. [UniProt]

Research Area Cancer antibody; Cell Biology and Cellular Response antibody; Controls and Markers antibody;

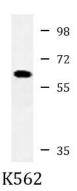
Metabolism antibody; Signaling Transduction antibody; Peroxisome Marker antibody

Calculated Mw 60 kDa

PTM The N-terminus is blocked.

Cellular Localization Peroxisome.

Images



ARG55067 anti-Catalase antibody WB image

Western blot: 35 μg of K562 cell lysate stained with ARG55067 anti-Catalase antibody.