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Datasheet for 100-4151

Catalase Antibody

Overview

Description:	Anti-Catalase (RABBIT) Antibody - 100-4151
Item No.:	100-4151
Size:	2 mL
Applications:	WB, IF, Multiplex
Reactivity:	Human, Mouse, Rat, Bovine, Sheep
Host Species:	Rabbit

Product Details

Background:	Anti-Catalase Antibody detects catalase. Catalase is a common enzyme found in nearly all living organisms exposed to oxygen. It catalyzes the decomposition of hydrogen peroxide to water and oxygen. Catalase is necessary in cells to protect them from the toxic effects of hydrogen peroxide and to promote growth of cells. Anti-Catalase antibody is ideal for investigators involved in Cell Signaling, Neuroscience and Signal Transduction research.
Synonyms:	rabbit anti-Catalase Antibody, Cas 1 antibody, CAT antibody, Cs1 antibody, MGC138422 antibody, MGC138424 antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Gene Name:	CAT
Reactivity:	Human, Mouse, Rat, Bovine, Sheep
Immunogen Type:	Native Protein
Immunogen:	Anti-Catalase Antibody was produced by repeated immunizations with bovine liver catalase protein.

Purity/Specificity:	Anti-Catalase Antibody was prepared from monospecific antiserum by delipidation and defibrination. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-rabbit serum, purified and partially purified Catalase [Bovine Liver]. Cross reactivity against Catalase from other tissues and species may occur but has not been specifically determined.
Relevant Links:	• NCBI - AAI03067.1 • UniProtKB - P00432 • GeneID - 531682

Application Details

Tested Applications:	WB
Suggested Applications:	IF, Multiplex (Based on references)
Application Note:	Anti-Catalase Antibody has been tested by western blotting and is suitable for IHC and for ELISA. Researchers should determine optimal titers for applications that are not stated below.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:100,000 - 1:1,000,000
IHC:	User Optimized
WB:	1:5,000 - 1:20,000

Formulation

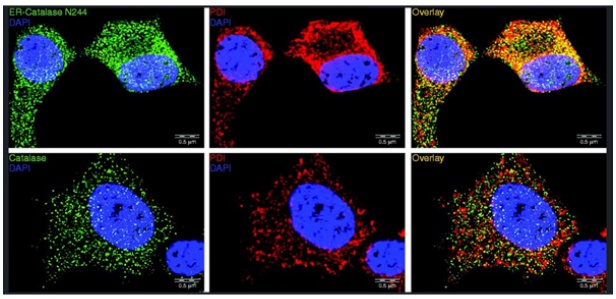
Physical State:	Lyophilized
Concentration:	85 mg/mL by Refractometry
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None
Reconstitution Volume:	2.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

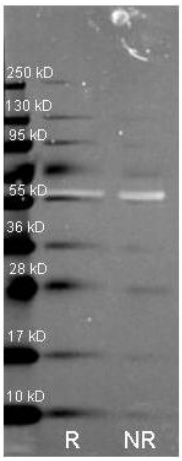
Shipping Condition:	Ambient

Storage Condition:	Store Catalase Antibody at 4° C prior to restoration. For extended storage aliquot antibody and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

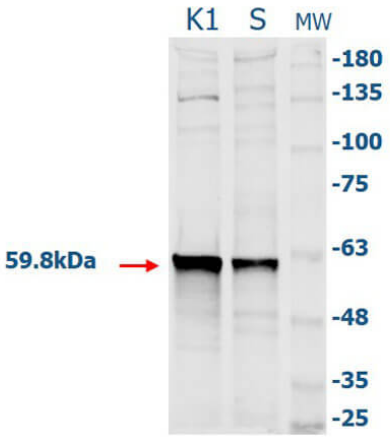
Images



Immunofluorescence Microscopy
Subcellular localisation of ER-Catalase N244 and WT catalase in insulin-secreting INS-1E cells. Cells were seeded on LabTek chamber slides. After fixation and permeabilisation the cells were stained with specific antibodies for catalase (green) and for the ER-specific protein disulfide isomerase (PDI, red), followed by counterstaining with DAPI (blue). Fig 1.
PMID: 26108484.



Western Blot
Western Blot of Rabbit anti-Catalase antibody. Lane R: Reduced samples of purified Catalase. Lane NR: Non-reduced samples of purified Catalase. Load: ~1ug of protein per lane. Primary antibody: Catalase antibody at 1:1000 for overnight at 4°C. Secondary antibody: Dylight488™ rabbit secondary antibody at 1:10,000 for 1.5 hrs at RT. Block: MB-070 overnight at 4°C.
Predicted/Observed size: 59.9 kDa, 55 kDa for catalase.
Other band(s): none.



Western Blot
Western Blot of Rabbit Anti-Catalase (Bovine Liver) Antibody. Lane 1: CHO K1 Lysate 10µg. Lane 2: CHO S Lysate 10µg. Lane 3: Opal Pre-stained Molecular Weight Marker (p/n MB-210-0500). Primary Antibody: Rabbit Anti-Catalase at 1:500 overnight at 2-8°C. Secondary Antibody: Goat Anti-Rabbit IgG CY5 (p/n 611-110-122) at 1:10,000 for 30 in at RT. Expect: ~59.8kDa.

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