

Rat Catalase (CAT) ELISA Kit | CAT elisa kit

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CATALOG #
AAA330222

REACTIVITY
Rat

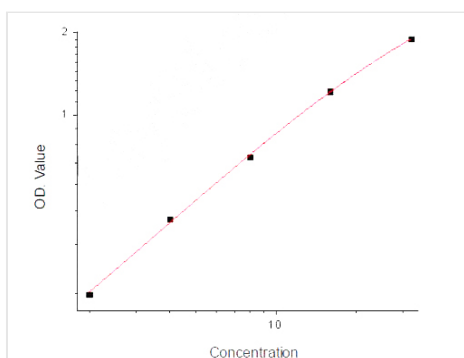
PRODUCT SYNONYMS

Catalase (CAT); Rat Catalase (CAT) ELISA Kit; CAT elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Sequence Length	527
Assay Type	Sandwich
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CAT elisa kit

Principle of the Assay: Rat Catalase (CAT) ELISA Kit employs a two-site sandwich ELISA to quantitate Catalase in samples. An antibody specific for Catalase has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any Catalase present is bound by the immobilized antibody. After removing any unbound substances, HRP-Conjugated Rat Catalase detection antibody is added to the wells. Following a wash to remove any unbound HRP reagent, a Chromogen solution is added to the wells and color develops in proportion to the amount of Catalase bound in the initial step. The color development is stopped and the intensity of the color is measured.

Background/Introduction: Catalase is a common enzyme found in nearly all living organisms exposed to oxygen (such as bacteria, plants, and animals). It catalyzes the decomposition of hydrogen peroxide to water and oxygen. It is a very important enzyme in protecting the cell from oxidative damage by reactive oxygen species (ROS). Likewise, catalase has one of the highest turnover numbers of all enzymes; one catalase molecule can convert millions of hydrogen peroxide molecules to water and oxygen each second.

NCBI AND UNIPROT INFORMATION

NCBI GI #

4557014

NCBI GeneID	847
NCBI GenBank Nucleotide #	NP_001743.1
UniProt Accession #	P04040
NCBI Official Full Name	catalase
NCBI Official Synonym Full Names	catalase
NCBI Official Symbol	CAT
NCBI Protein Information	catalase
UniProt Protein Name	Catalase
UniProt Gene Name	CAT
UniProt Entry Name	CATA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/rat-elisa-kits/catalase-cat/330222>