

Rabbit anti-Human Catalase Polyclonal Antibody

Anti-Catalase Antibody, Rabbit Polyclonal

CATALOG # AAA258979	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunoprecipitation, Western Blot
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PRODUCT SYNONYMS

Catalase; Polyclonal Antibody; Anti-Catalase Antibody; Rabbit Polyclonal; catalase; anti-Catalase antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human Catalase
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-Catalase antibody	IP (Immunoprecipitation), WB (Western Blot)
Immunogen	E coli-derived Human Catalase fragment
Preparation	Produced in rabbits immunized with E coli-derived Human Catalase fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



IP (Immunoprecipitation)

CAT-1 was immunoprecipitated using: Lane A: 0.5 mg HepG2 Whole Cell Lysate, 4 uL anti-CAT-1 rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-CAT-1 rabbit polyclonal antibody, at 1:100 dilution. Secondary antibody: Clean-Blot IP Detection Reagent (HRP) at 1:1000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 58 kDa. Observed band size: 58 kDa.



WB (Western Blot)

Anti-Catalase rabbit polyclonal antibody at 1:500 dilution. Lane A: HepG2 Whole Cell Lysate. Lane B: HeLa Whole Cell Lysate. Lane C: Jurkat Whole Cell Lysate. Lane D: TF-1 Whole Cell Lysate. Lysates/proteins at 30 ug per lane. Secondary: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 58 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-Catalase antibody	Catalase is a ubiquitously expressed enzyme that catalyzes the decomposition of hydrogen peroxide to water and oxygen. It is a tetramer of four polypeptides chains containing four porphyrin heme groups that allow the enzyme to react with the hydrogen peroxide. The optimum PH of human catalase is approximately 7 and the optimum temperature is at 37 degree. Both the PH optimum and temperature for other catalases varies depending on the species. Catalase can be inhibited by a flux of O2- generated in situ by the aerobic xanthine oxidase reaction. This inhibition of catalase by O2- provides the basis for a synergism between superoxide dismutase and catalase. Such synergisms have been observed in vitro and may be significant in vivo. Catalase is used in the food industry for removing hydrogen peroxide from milk prior to cheese production. Another use is in food wrappers where it prevents food from oxidizing. Catalase is also used in the textile industry, removing hydrogen peroxide from fabrics to make sure the material is peroxide-free.
References	Schriner SE. et al., 2005, Science. 308 (5730): 1909-11. Kono Y. et al., 1982, The Journal of Biological Chemistry. 257: 5751-4.

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://stage.aaabiotech.com/polyclonal/catalase-antibody-immunoprecipitation-western-blot-elisa/258979>