

DATASHEET

Version: 2016-08-17

Catalase Antibody, pAb, Rabbit**Cat. No.:** A01187-40**Size:** 40 µg**Synonyms:** Rabbit anti Catalase(amino-terminal) polyclonal antibody;**Description:**

Catalase, also known as CAT, is the classical marker for peroxisomes, in which it is the most abundant protein. It is found in almost all aerobically respiring organisms and serves to protect cells from hydrogen peroxide toxicity. Defects in CAT cause acatalasia, which is characterized by the absence of catalase activity in red cells and is often associated with ulcerating oral lesions.

GenScript **Catalase Antibody, pAb, Rabbit** is developed in rabbit using a KLH-coupled synthetic peptide derived from the residues near the carboxyl terminus of the human catalase protein (Swiss Prot: P04040).

Immunogen: Synthetic peptide (KLH-coupled) derived from residues near the carboxyl terminus of the human catalase protein (Swiss Prot: P04040)

Host: Rabbit**Antigen Synonyms:** Human**Conjugation:** Unconjugated**Predicated Band Size:**

60 kD

Observed Band Size:

60 kD

Formulation:

0.5 mg/ml, lyophilized with PBS, pH 7.4, containing 0.02% sodium azide

Ig Subclass: Rabbit IgG

Specificity: GenScript **Catalase Antibody, pAb, Rabbit** detects endogenous levels of human and mouse catalase protein.

Purification: Immunoaffinity chromatography**Applications:**

Working concentrations for specific applications should be determined by the investigator. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

ELISA: 0.05-0.2 µg/ml**Western blot:** 0.5-2 µg/ml**Immunoprecipitation (IP):** 2-10 µg/mg of lysate**Flow cytometry:** 1-3 µg for 1 x 10⁶ cells**Other applications:** user optimized

Species Reactivity: Human, mouse. Reactivity within other species has not been tested yet.

Reconstitution:

Reconstitute the lyophilized powder with deionized water (or equivalent) to an antibody concentration of 0.5 mg/ml.

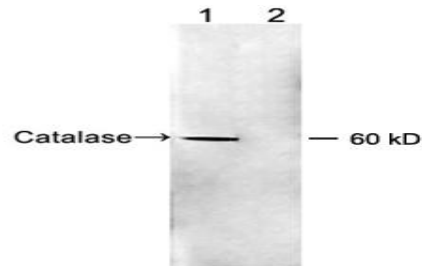
Storage:

The antibody is stable in lyophilized form if stored at -20°C or below. The reconstituted antibody can be stored for 2-3 weeks at 2-8°C. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.

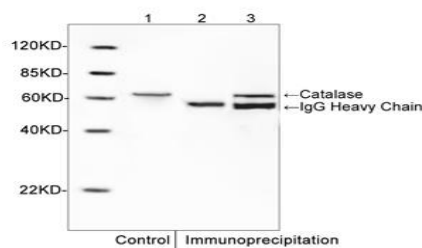
Example



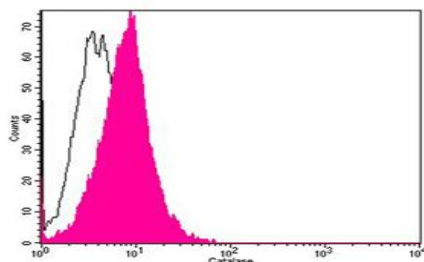
Western blot analysis of mouse liver tissue lysate using 1 µg/ml Rabbit Anti-Catalase Polyclonal Antibody (GenScript, A01187)
 Lane 1. Rabbit Anti-Catalase Polyclonal Antibody
 Lane 2. Rabbit Anti-Catalase Polyclonal Antibody pre-incubated with immunizing peptide
 The signal was developed with IRDye™ 800 Conjugated Goat Anti-Rabbit IgG.



Western blot analysis of Hela cell lysate using 2 µg/ml Rabbit Anti-Catalase Polyclonal Antibody (GenScript, A01187)
 Lane 1. Rabbit Anti-Catalase Polyclonal Antibody
 Lane 2. Rabbit Anti-Catalase Polyclonal Antibody pre-incubated with immunizing peptide
 The signal was developed with IRDye™ 800 Conjugated Goat Anti-Rabbit IgG.



Western blot analysis of immunoprecipitates from mouse liver lysate using Rabbit Anti-Catalase Polyclonal Antibody (GenScript, A01187).
 Lane 1: Input control material for mouse liver lysate
 Lane 2: Negative control – IP with isotype control antibody (GenScript, A01008)
 Lane 3: Immunoprecipitation with Rabbit Anti-Catalase Polyclonal Antibody (GenScript, A01187).



Flow cytometric analysis of Ramos cells using Catalase Antibody, pAb, Rabbit (GenScript, A01187; shaded histogram) or with an isotype control antibody (GenScript, A01008; open histogram), followed by R-PE conjugated anti-rabbit IgG.