

## Catalase (ANT0046R) Rabbit mAb

CatalogNo: ANT8083 **Recombinant** 

Formulation: PBS,50%glycerol,0.05%Proclin 300,0.05%BSA  
Quantity : 100 ug/vial

### Host Species

- Rabbit
- Human,Mouse,Rat,

### Reactivity

- WB,IHC,IF,IP,ELISA

### Applications

### MW

- 60kD (Calculated)
- 60kD (Observed)

### Isotype

- IgG,Kappa

## Recommended Dilution Ratios

IHC 1:200-1000

WB 1:1000-5000

IF 1:200-1000

ELISA 1:5000-20000

IP 1:50-200

## Storage

**Storage\*** -15°C to -25°C/1 year(Do not lower than -25°C)

## Basic Information

**Clonality** Monoclonal

**Clone Number** ANT0046R

## Target Information

Endogenous

Gene name CAT  
Protein Name Catalase

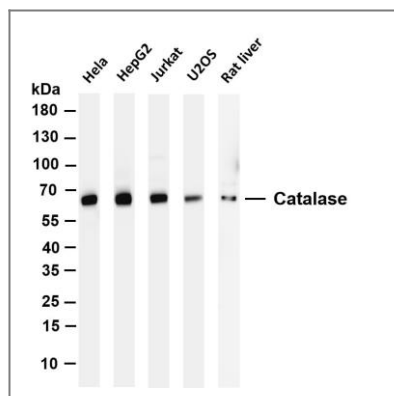
Organism	Gene ID	UniProt ID
Human	<a href="#">847;</a>	<a href="#">P04040;</a>
Mouse		<a href="#">P24270;</a>

Cellular Localization Cytoplasm

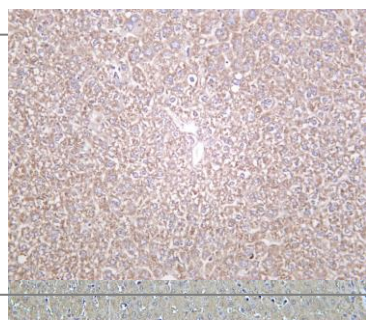
Tissue specificity Brain,Cajal-Retzius cell,Erythrocyte,Eye,Fibroblast,Kidney,Liver,Placenta,Platelet,Skin,Uterus,

Function Catalytic activity:2 H(2)O(2) = O(2) + 2 H(2)O.,cofactor:Heme group.,cofactor:NADP.,Disease:Defects in CAT are the cause of acatalasia (ACATLAS) [MIM:115500]; also known as acatalasemia. This disease is characterized by absence of catalase activity in red cells and is often associated with ulcerating oral lesions.,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.,online information:Catalase entry,ANTM:The N-terminus is blocked.,similarity:Belongs to the catalase family.,subunit:Homotetramer.,

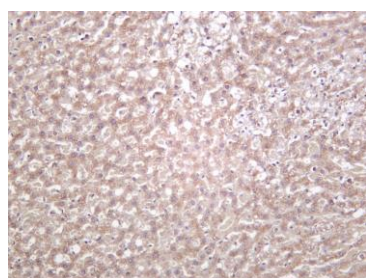
## Validation Data



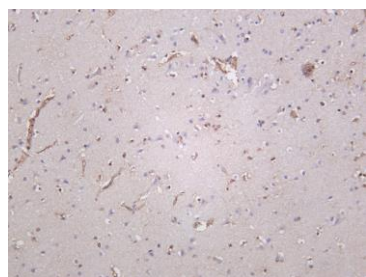
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Catalase (ANT0046R) antibody. The HRPconjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HeLa Lane 2: HepG2 Lane 3: Jurkat Lane 4: U2OS Lane 5: Rat liver Predicted band size: 60kDa Observed band size: 60kDa



Human liver was stained with Anti-Catalase (ANT0046R) rabbit antibody  
Mouse liver was stained with Anti-Catalase (ANT0046R) rabbit antibody



Rat liver was stained with Anti-Catalase (ANT0046R) rabbit antibody



Human brain was stained with Anti-Catalase (ANT0046R) rabbit antibody

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