

**MAC418Hu28**

**Monoclonal Antibody to Catalase (CAT)**

**Organism Species: *Homo sapiens (Human)***

***Instruction manual***

FOR RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

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13th Edition (Revised in Aug, 2023)

**[ PROPERTIES ]**

**Source:** Monoclonal antibody preparation

**Host:** Mouse

**Antibody isotype:** IgG1 Kappa

**Purification:** Protein A + Protein G affinity chromatography

**Clone number:** D6

**Traits:** Liquid

**Concentration:** 1mg/mL

**UOM:** 100 $\mu$ L

**Cross Reactivity:** Mouse;Rat

**Applications:** WB; IHC

**[ IMMUNOGEN ]**

**Immunogen:** Recombinant CAT (Ser246~Leu366 (Accession # P04040)) expressed in *E.coli*

**Accession No.:** RPC418Hu03

**[ APPLICATIONS ]**

Western blotting: 0.01-2 $\mu$ g/mL;

Immunohistochemistry: 5-20 $\mu$ g/mL;

Optimal working dilutions must be determined by end user.

**[ FORMULATION ]**

**Form & Buffer:** Supplied as solution form in 0.01M PBS, pH7.4, containing 0.05% Proclin-300, 50% glycerol.

**[ STORAGE AND STABILITY ]**

**Storage:** Avoid repeated freeze/thaw cycles.

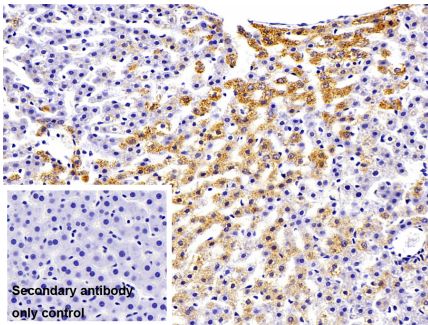
Store at 4°C for frequent use.

Aliquot and store at -20°C for 24 months.

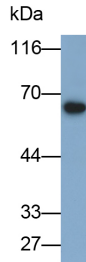
**Stability Test:** The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no

obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

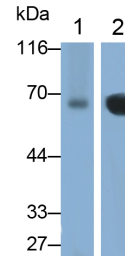
**[ IDENTIFICATION ]**



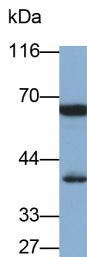
DAB staining on IHC-P;  
 Sample: Rat Liver Tissue  
 Primary Ab: 30µg/ml Mouse Anti-Human CAT Antibody  
 Control: Used PBS instead of primary antibody  
 Second Ab: 2?g/ml HRP-Linked Caprine Anti-Mouse IgG Polyclonal Antibody  
 (Catalog: SAA544Mu19)



Western Blot; Sample: Rat Liver lysate  
 Primary Ab: 0.01µg/ml Mouse Anti-Human CAT Antibody  
 Second Ab: 0.2?g/ml HRP-Linked Caprine Anti-Mouse IgG Polyclonal Antibody  
 (Catalog: SAA544Mu19)



Western Blot; Samples: Lane1: Rat Kidney lysate; Lane2: Mouse Liver lysate;  
 Primary Ab: 0.05µg/ml Mouse Anti-Human CAT Antibody  
 Second Ab: 0.2?g/ml HRP-Linked Caprine Anti-Mouse IgG Polyclonal Antibody  
 (Catalog: SAA544Mu19)



Western Blot; Sample: THP1 cell lysate  
 Primary Ab: 0.05µg/ml Mouse Anti-Human CAT Antibody  
 Second Ab: 0.2?g/ml HRP-Linked Caprine Anti-Mouse IgG Polyclonal Antibody  
 (Catalog: SAA544Mu19)

**[ IMPORTANT NOTE ]**

The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.