

# **Catalase Polyclonal Antibody**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP57988

#### **Specification**

## **Catalase Polyclonal Antibody - Product Information**

Application WB, IHC-F, IF, E

Primary Accession
Reactivity
Pig
Host
Clonality
Calculated MW
Physical State

O62839
Rabbit
Polyclonal
S8 KDa
Liquid

Immunogen Catalase natural protein from pig liver

Isotype Ig

**Purity** 

affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Peroxisome.

SIMILARITY Belongs to the catalase family.

SUBUNIT Homotetramer.

Post-translational modifications

DISEASE

The N-terminus is blocked.

Defects in CAT are the cause of

acatalasemia (ACATLAS) [MIM:614097]. A metabolic disorder characterized by absence of catalase activity in red cells and is often associated with ulcerating oral

lesions.

Important Note This product as supplied is intended for

research use only, not for use in human, therapeutic or diagnostic applications.

## **Background Descriptions**

Catalase is the classical marker for peroxisomes and is the most abundant protein within peroxisomes. It is found in almost all aerobically respiring organisms and serves to protect cells from the toxic effects of hydrogen peroxide.

## **Catalase Polyclonal Antibody - Additional Information**

**Gene ID 397568** 

**Other Names** 

Catalase, 1.11.1.6, CAT

#### **Dilution**

<span class ="dilution WB">WB~~1:1000</span><br \><span class</pre>

="dilution\_IHC-F">IHC-F~~N/A</span><br \><span class

="dilution IF">IF~~1:50~200</span><br/>span class = "dilution E">E~~N/A</span>



### **Storage**

Store at -20  $^{\circ}$ C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4  $^{\circ}$ C.

## **Catalase Polyclonal Antibody - Protein Information**

### **Name CAT**

#### **Function**

Catalyzes the degradation of hydrogen peroxide (H(2)O(2)) generated by peroxisomal oxidases to water and oxygen, thereby protecting 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.

#### **Cellular Location**

Peroxisome matrix {ECO:0000250|UniProtKB:P04040}.

## **Catalase Polyclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Catalase Polyclonal Antibody - Images