

## Catalase Rabbit monoclonal antibody

Catalog: MB66325

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

Catalase catalyzes the conversion of hydrogen peroxide to water and oxygen. Research studies show that overexpression of this antioxidant enzyme increases the ability of pancreatic  $\beta$ -cells to scavenge reactive oxygen species (ROS), thereby protecting pancreatic  $\beta$ -cells from oxidative stress. The pancreatic  $\beta$ -cells overexpressing this enzyme are also protected from hydrogen peroxide-mediated lipotoxicity, providing further evidence for the importance of catalase in the pathogenesis of diabetes.

### Product:

Liquid in 50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA.

### Molecular Weight:

~ 60 kDa

### Swiss-Prot:

P04040

### Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

### Applications:

WB (1/500 - 1/1000), IHC (1/50 - 1/100)

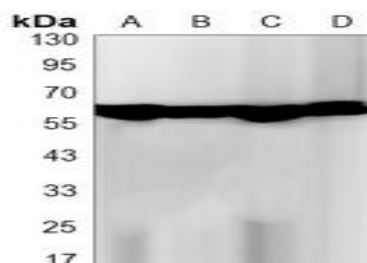
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

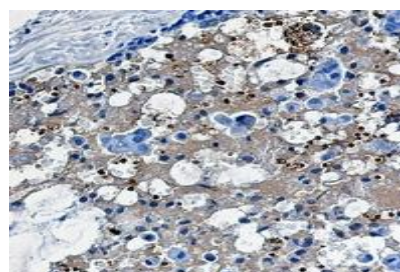
### Specificity:

Recognizes endogenous levels of Catalase protein.

### DATA:



Western blot analysis of Catalase expression in mouse heart (A), rat heart (B), K562 (C), HeLa (D) whole cell lysates.



Immunohistochemical analysis of Catalase staining in human breast carcinoma formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.8). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

### Note:

For research use only, not for use in diagnostic procedure.

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