

**Product Name: Catalase Rabbit Monoclonal Antibody****Catalog #: AMRe04061**

For research use only.

**Summary**

<b>Description</b>	Recombinant rabbit monoclonal antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC,ICC/IF
<b>Reactivity</b>	Human
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Concentration</b>	0.51mg/ml. The concentration of this product may be batch-dependent.
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% protective protein
<b>Purification</b>	Affinity Purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:1000,IHC 1:50-1:100,ICC/IF 1:50-1:200
<b>Molecular Weight</b>	Calculated MW: 60 kDa; Observed MW: 60 kDa

**Antigen Information**

<b>Gene Name</b>	CAT
<b>Alternative Names</b>	Cas1; CAT; Catalase; Cs1
<b>Gene ID</b>	847
<b>SwissProt ID</b>	P04040
<b>Immunogen</b>	A synthetic peptide of human Catalase

**Background**

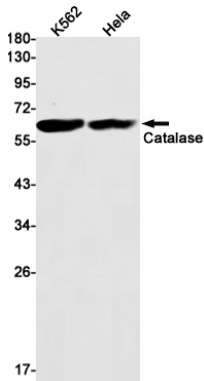
Catalase catalyzes the conversion of hydrogen peroxide to water and oxygen. Research studies show that overexpression of this antioxidant enzyme increases the ability of pancreatic  $\beta$ -cells to scavenge reactive oxygen species (ROS), thereby

protecting pancreatic  $\beta$ -cells from oxidative stress.

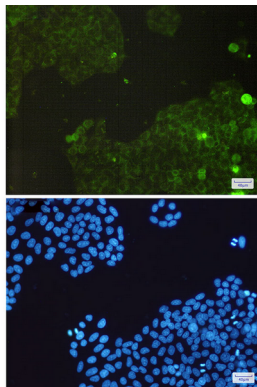
## Research Area

Tags & Cell Markers

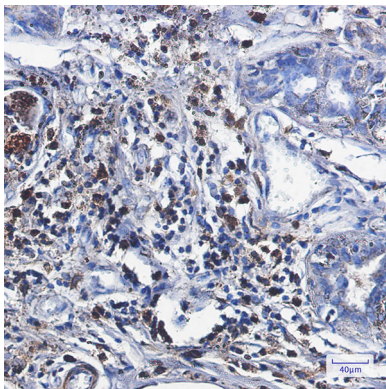
## Image Data



Western blot analysis of Catalase in K562, HeLa lysates using Catalase antibody.



Immunocytochemistry analysis of Catalase(green) in HeLa using Catalase antibody, and DAPI(blue)



Immunohistochemistry analysis of paraffin-embedded Human breast cancer using Catalase antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.