

[KO]Catalase Rabbit mAb

Catalog # AP75199

Product Information

Application	WB, IHC-P
Primary Accession	P04040
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	59756

Additional Information

Gene ID	847
Other Names	CAT
Dilution	WB~~1:500-1:1000 IHC-P~~N/A
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

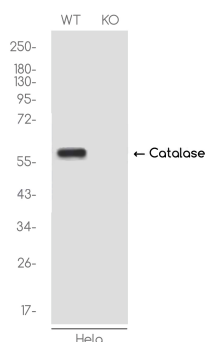
Name	CAT
Function	Catalyzes the degradation of hydrogen peroxide (H ₂ O ₂) generated by peroxisomal oxidases to water and oxygen, thereby protecting cells from the toxic effects of hydrogen peroxide (PubMed: 7882369). Promotes growth of cells including T-cells, B-cells, myeloid leukemia cells, melanoma cells, mastocytoma cells and normal and transformed fibroblast cells (PubMed: 7882369).
Cellular Location	Peroxisome matrix

Background

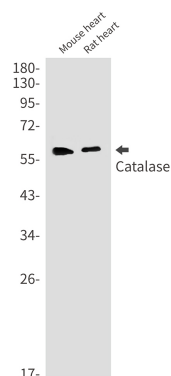
Catalase catalyzes the conversion of hydrogen peroxide to water and oxygen. Research studies show that overexpression of this antioxidant enzyme increases the ability of pancreatic β -cells to scavenge reactive

oxygen species (ROS), thereby protecting pancreatic β -cells from oxidative stress.

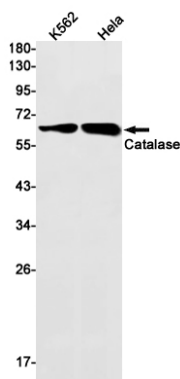
Images



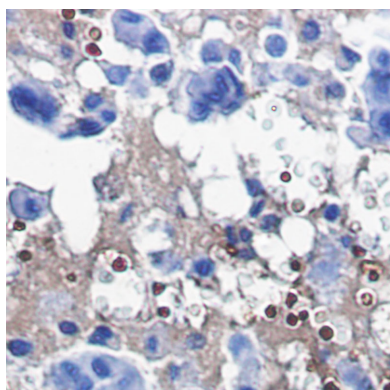
Western blot analysis of Catalase in HeLa(WT) and Catalase-Knockout HeLa(KO) using Catalase antibody.



Western blot analysis of Catalase in mouse heart, rat heart lysates using Catalase antibody.



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



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.