

[KO]Catalase Rabbit mAb

Catalog # AP75198

Product Information

Application	WB, FC
Primary Accession	P24270
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	59795

Additional Information

Gene ID	12359
Other Names	Cat
Dilution	WB~~1:500-1:1000 FC~~1:50-1:100
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

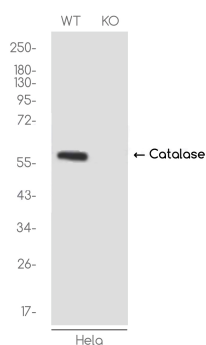
Name	Cat
Synonyms	Cas-1, Cas1
Function	Catalyzes the degradation of hydrogen peroxide (H ₂ O ₂) generated by peroxisomal oxidases to water and oxygen, thereby protecting cells from the toxic effects of hydrogen peroxide. Promotes growth of cells including T-cells, B-cells, myeloid leukemia cells, melanoma cells, mastocytoma cells and normal and transformed fibroblast cells.
Cellular Location	Peroxisome matrix.

Background

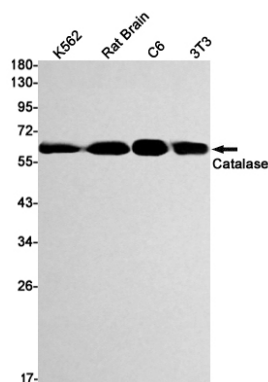
Hydrogen peroxide is a harmful byproduct of many normal metabolic processes; to prevent damage to cells

and tissues, it must be quickly converted into other, less dangerous substances. To this end, catalase is frequently used by cells to rapidly catalyze the decomposition of hydrogen peroxide into less-reactive gaseous oxygen and water molecules. Catalase is usually located in a cellular, bipolar environment organelle called the peroxisome. All known animals use catalase in every organ, with particularly high concentrations occurring in the liver. Catalase promotes growth of cells including T-cells, B-cells, myeloid leukemia cells, melanoma cells, mastocytoma cells and normal and transformed fibroblast cells.

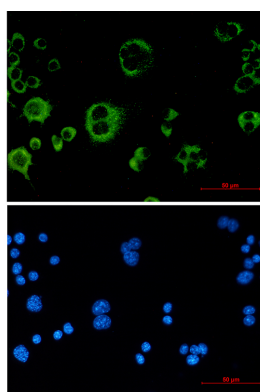
Images



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



Western blot analysis of Catalase in K562, rat Brain, C6, 3T3 lysates using Catalase antibody.



Immunocytochemistry analysis of Catalase (green) in Raw264.7 using Catalase antibody, and DAPI(blue)

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