

Catalase Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP57988

Product Information

Application	WB, IHC-F, IF, E
Primary Accession	O62839
Reactivity	Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	59883
Physical State	Liquid
Immunogen	Catalase natural protein from pig liver
Isotype	IgG
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	The N-terminus is blocked.
DISEASE	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.

Additional Information

Gene ID	397568
Other Names	Catalase, 1.11.1.6, CAT
Dilution	WB=1:500-2000,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °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 °C.

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}.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.