

Catalase Antibody

Lot Number: QD2014022J

Product Data Sheet

Tested Species Reactivity	
Human (Hu)	

Tested Applications	Dilution *
Western Blot (WB)	1:500-1:3000
Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1000

* Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own experiment using appropriate negative and positive controls.

Details	
Catalog Number:	PA5-29650
Size:	100 µL
Class:	Polyclonal
Type:	Antibody
Clone:	
Host / Isotype:	Rabbit / IgG
Immunogen:	Recombinant fragment corresponding to a region within amino acids 89 and 341 of Human Catalase

Form Information	
Form:	Liquid
Concentration:	1mg/ml
Purification:	Antigen affinity chromatography
Storage Buffer:	0.1M tris, pH 7, with 10% glycerol, 0.1M glycine
Preservative:	0.01% thimerosal
Storage Conditions:	-20° C, Avoid Freeze/Thaw Cycles

Product Specific Information	General Information
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PA5-29650 targets Catalase in IHC (P) and WB applications and shows reactivity with Human samples.

The PA5-29650 immunogen is recombinant fragment corresponding to a region within amino acids 89 and 341 of Human Catalase.

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This gene encodes catalase, a key antioxidant enzyme in the bodies defense against oxidative stress. Catalase is a heme enzyme that is present in the peroxisome of nearly all aerobic cells. Catalase converts the reactive oxygen species hydrogen peroxide to water and oxygen and thereby mitigates the toxic effects of hydrogen peroxide. Oxidative stress is hypothesized to play a role in the development of many chronic or late-onset diseases such as diabetes, asthma, Alzheimer's disease, systemic lupus erythematosus, rheumatoid arthritis, and cancers. Polymorphisms in this gene have been associated with decreases in catalase activity but, to date, acatalasemia is the only disease known to be caused by this gene.

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