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Built Around Immunology

Anti-Catalase Rabbit mAb [42C69]

Catalog No.: A52038

Basic Information

Catalog No. (Cat.No.)	A52038
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Synonyms	Catalase,CAT,Catalase-peroxidase,CAT1

Product Information

Target	Catalase
Molecular Weight(Calculated)	60 kDa
Molecular Weight(Observed)	60 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	42C69
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:1000-1:5000
IHC	1:200-1:1000
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	Catalase
Gene Name	*CAT*
Domain	NA
Background	Catalase is a core heme-dependent antioxidant enzyme and a key functional protein responsible for cellular reactive oxygen species scavenging. Ubiquitously localized in cellular peroxisomes, Catalase efficiently catalyzes the decomposition of hydrogen peroxide into water and oxygen, eliminates accumulated oxidative stress products, and protects cells from ROS-induced damage, lipid peroxidation and DNA injury to maintain intracellular redox homeostasis. As an essential component of the antioxidant defense system, decreased expression or inactivation of Catalase leads to oxidative imbalance, triggering inflammatory damage, cellular senescence, metabolic disorders and malignant transformation, which is closely correlated with degenerative diseases, metabolic disorders and tumor progression.