

## ARG55067 anti-Catalase antibody [626CT4.3.8]

Package: 50 µl  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody recognizes Catalase
Tested Reactivity	Hu, Ms
Predict Reactivity	Bov, Rat, Pig, Zfsh
Tested Application	WB
Host	Mouse
Clonality	Monoclonal
Clone	626CT4.3.8
Isotype	IgG2a
Target Name	Catalase
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 152-180 (Center) of Human Catalase.
Conjugation	Un-conjugated
Alternate Names	Catalase; EC 1.11.1.6

### Application Instructions

Application table	Application	Dilution
	WB	1:100 - 1:1600
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	K562	

### Properties

Form	Liquid
Buffer	Crude Ascites and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

### Bioinformation

Database links	<a href="#">GeneID: 12359 Mouse</a> <a href="#">GeneID: 847 Human</a> <a href="#">Swiss-port # P04040 Human</a> <a href="#">Swiss-port # P24270 Mouse</a>
Gene Symbol	CAT
Gene Full Name	catalase
Background	<p>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. [provided by RefSeq, Oct 2009]</p>
Function	Occurs in almost all aerobically respiring organisms and serves to protect 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. [UniProt]
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Controls and Markers antibody; Metabolism antibody; Signaling Transduction antibody; Peroxisome Marker antibody
Calculated Mw	60 kDa
PTM	The N-terminus is blocked.
Cellular Localization	Peroxisome.

## Images

