

Mouse CAT Monoclonal Antibody | anti-CAT antibody

CAT Antibody (Center) (Ascites)

CATALOG # AAA283457	HOST Mouse	REACTIVITY Human, mouse (Predicted Reactivity: Bovine, Zebrafish, Pig, Rat)	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

CAT; Monoclonal Antibody; CAT Antibody (Center) (Ascites); Catalase; anti-CAT antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, mouse (Predicted Reactivity: Bovine, Zebrafish, Pig, Rat)
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	626CT4.3.8
Specificity	This CAT antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 152-180 amino acids from the Central region of human CAT.
Form/Format	Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.
Sequence Positions	152-180
Sequence Length	527
Applicable Applications for anti-CAT antibody	ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)

CAT Antibody (Center) (Ascites) western blot analysis in K562 cell line lysates (35ug/lane). This demonstrates the CAT antibody detected the CAT protein (arrow).



WB (Western Blot)

CAT Antibody (Center)(Ascites) western blot analysis in mouse Liver tissue lysates (35ug/lane). This demonstrates the CAT antibody detected the CAT protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-CAT antibody	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.
Product Categories/Family for anti-CAT antibody	Cancer ; Cardiovascular ; Metabolism ; Signal Transduction ; Autophagy
References	Banerjee, M., et al. Toxicol. Appl. Pharmacol. 249(1):47-54(2010) Wu, S.H., et al. Clin. Chim. Acta 411 (21-22), 1705-1710 (2010) : Liu, L., et al. J. Invest. Dermatol. 130(11):2647-2653(2010) Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Dutkiewicz, G., et al. Nephrology (Carlton) 15(5):587-591(2010)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557014
NCBI GeneID	847
NCBI Accession #	NP_001743.1
NCBI GenBank Nucleotide #	NM_001752.3
UniProt Accession #	P04040; Q2M1U4; Q4VXX5; Q9BWT9; Q9UC85; A8K6C0; B2RCZ9; D3DR07
Molecular Weight	59756
NCBI Official Full Name	catalase
NCBI Official Synonym Full Names	catalase
NCBI Official Symbol	CAT
NCBI Protein Information	catalase
UniProt Protein Name	Catalase
UniProt Gene Name	CAT
UniProt Entry Name	CATA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cat-antibody-clone-626ct4-3-8-western-blot-elisa/283457>