

Datasheet for ABIN1537700
anti-Catalase antibody (AA 152-180)[Go to Product page](#)

2 Images

1 Publication

Overview

Quantity:	0.1 mL
Target:	Catalase (CAT)
Binding Specificity:	AA 152-180
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Catalase antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	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.
Clone:	626CT4-3-8
Isotype:	IgG2a
Predicted Reactivity:	B, Zf, Pig, Rat
Purification:	Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.

Target Details

Target:	Catalase (CAT)
Alternative Name:	CAT (CAT Products)

Target Details

Background:	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.
Molecular Weight:	59756
Gene ID:	847
NCBI Accession:	NP_001743
UniProt:	P04040
Pathways:	Cellular Glucan Metabolic Process , Cell RedoxHomeostasis , Photoperiodism

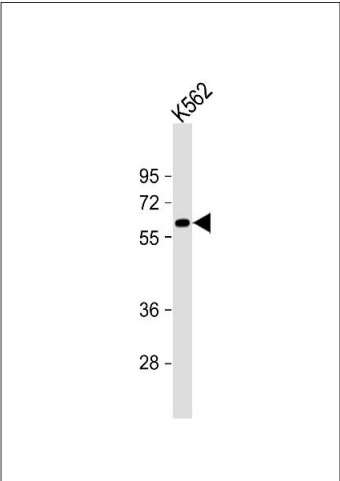
Application Details

Application Notes:	WB: 1:1600. WB: 1:1600
Restrictions:	For Research Use only

Handling

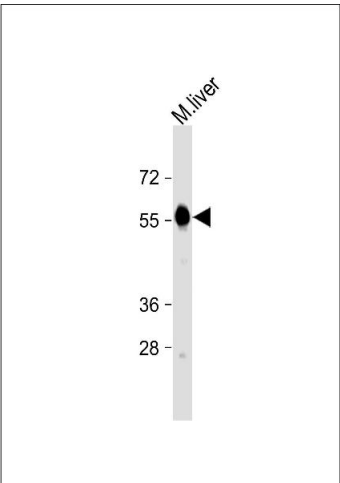
Format:	Liquid
Buffer:	Mouse monoclonal antibody supplied in crude ascites with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	CAT Antibody (Center)(Ascites) can be refrigerated at 2-8 °C for up to 6 months. For long term storage, keep at -20 °C.
Expiry Date:	6 months

Product cited in: Liu, Li, Li, Yang: "Pituitary tumor transforming gene PTTG2 induces psoriasis by regulating vimentin and E-cadherin expression." in: **International journal of clinical and experimental pathology**, Vol. 8, Issue 9, pp. 10887-93, (2016) ([PubMed](#)).



Western Blotting

Image 1. "Anti-CAT Antibody (Center) (Ascites) at 1:1600 dilution + K562 whole cell lysate Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 59756 Da Blocking/Dilution buffer: 5 % NFDM/TBST."



Western Blotting

Image 2. "Anti-CAT Antibody (Center) (Ascites) at 1:1600 dilution + mouse liver lysate Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 59756 Da Blocking/Dilution buffer: 5 % NFDM/TBST."