

For Research Use Only

Catalase Monoclonal antibody

Catalog Number: 66765-1-Ig **8 Publications**



Basic Information

Catalog Number: 66765-1-Ig	GenBank Accession Number: BC112219	Purification Method: Protein G purification
Size: 150ul, Concentration: 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 847	CloneNo.: 1F8D7
Source: Mouse	Full Name: catalase	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:100-1:500 IF 1:50-1:500
Isotype: IgG1	Calculated MW: 60 kDa	
Immunogen Catalog Number: AG16916	Observed MW: 60 kDa	

Applications

Tested Applications: IF, IHC, WB, ELISA	Positive Controls: WB: HeLa cells, rat brain tissue, mouse brain tissue, HEK-293 cells, HepG2 cells, Jurkat cells, pig brain tissue IHC: human hepatocirrhosis tissue IF: HepG2 cells,
Cited Applications: IF, WB	
Species Specificity: Human, Mouse, Rat, Pig	
Cited Species: goat, human, mouse, pig, rat	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

Catalase belongs to the catalase family. CAT occurs in almost all aerobically respiring organisms and serves to protect cells from the toxic effects of hydrogen peroxide. CAT promotes growth of cells including T-cells, B-cells, myeloid leukemia cells, melanoma cells, mastocytoma cells and normal and transformed fibroblast cells. CAT catalyzes the reaction: $2\text{H}_2\text{O}_2 = \text{O}_2 + 2\text{H}_2\text{O}$. Defects in CAT are the cause of acatalasia (ACATLAS) which also known as acatalasemia.

Notable Publications

Author	Pubmed ID	Journal	Application
Jian Xiao	31144242	Sci China Life Sci	
Jing Li	33774368	Theriogenology	WB
Minghui Wang	34174269	Eur J Pharmacol	IF

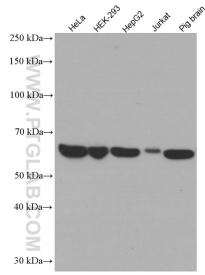
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

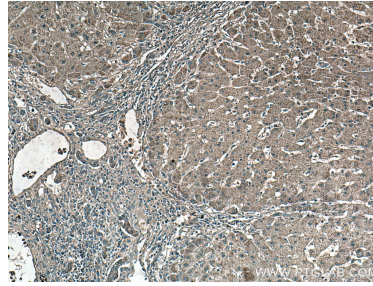
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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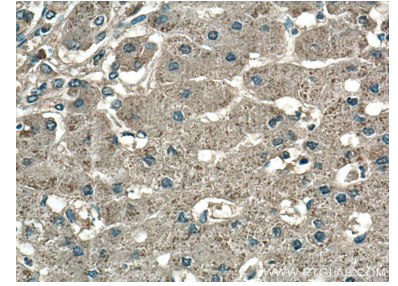
Selected Validation Data



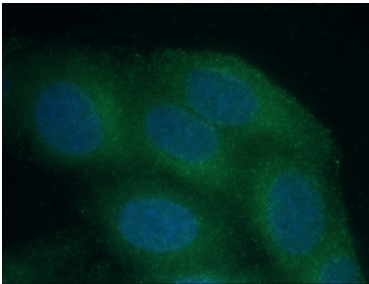
Various lysates were subjected to SDS PAGE followed by western blot with 66765-1-Ig (Catalase antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human hepatocirrhosis tissue slide using 66765-1-Ig (Catalase antibody) at dilution of 1:500 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human hepatocirrhosis tissue slide using 66765-1-Ig (Catalase antibody) at dilution of 1:500 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 66765-1-Ig (Catalase antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).