For Research Use Only

SOD2 Monoclonal antibody

Catalog Number:66474-1-lg Featured Product 58 Publications

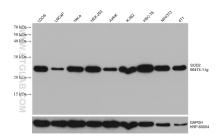


Basic Information	Catalog Number: 66474-1-lg	GenBank Accession Number: BC016934		Purification Method: Protein A purification	
	Size:				
	150ul , Concentration: 1000 µg/ml by	GeneID (NCBI): 6648		CloneNo.: 3A6C2	
	Nanodrop;	UNIPROT ID:		Recommended Dilutions:	
	Source:	P04179		WB 1:5000-1:50000	0113.
	Mouse	Full Name:		IHC 1:2500-1:10000	
	Isotype: IgG2a	superoxide dismutase 2, mitochondrial Calculated MW: 25 kDa		IF/ICC 1:200-1:800	
	Immunogen Catalog Number: AG21388				
		Observed MW: 25 kDa			
Applications	Tested Applications:		Positive Controls: WB : U2OS cells, HeLa cells, ROS1728 cells, RAW 264.7 cells, pig brain tissue, rat brain tissue, mouse brain tissue		
	WB, IHC, IF/ICC, FC (Intra), ELISA				
	Cited Applications: WB, IHC, IF, CoIP				
	Species Specificity: human, mouse, rat, pig			n liver cancer tissue, human liver tissue, on cancer tissue, human pancreas cancer	
	Cited Species:		tissue, mouse	liver tissue, rat liver ti	ssue
	human, mouse, rat, pig, goat		IF/ICC : HUVE	C cells,	
	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	SOD2(superoxide dismutase 2, mitochondrial) is also named as IPOB, MNSOD, SODM, Mn-SOD and belongs to the iron/manganese superoxide dismutase family. It is a marker of mitochondria, which is restricted to the perinuclear area in a cell with aggregate formation of mutant SOD1(PMID:12659845). It functions as the first line of antioxidant defense against highly reactive superoxide radicals and it appears to be early predictors for survival in septic patients with with MIF(PMID:20863520). It has 2 isoforms with the molecular weight of 25 kDa and 21 kDa.				
					/al in septic
Notable Publications	patients with with MIF(PMID:2086352		th the molecul	ar weight of 25 kDa and	/al in septic
Notable Publications	patients with with MIF(PMID:2086352	20). It has 2 isoforms wi	th the molecul	ar weight of 25 kDa and	val in septic J 21 kDa.
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Notable Publications	Patients with with MIF(PMID:2086352 Author Pub Lupeng Chen 346 Ling Li 345	20). It has 2 isoforms wi med ID Journa 603279 Front I 632973 J Cell	th the molecula al mmunol	ar weight of 25 kDa and	val in septic d 21 kDa. Application WB
Notable Publications Storage	Patients with with MIF(PMID:2086352 Author Pub Lupeng Chen 346 Ling Li 345	20). It has 2 isoforms wi med ID Journa 03279 Front I 132973 J Cell 669212 J Cont er shipment. % glycerol pH 7.3.	th the molecula al mmunol Mol Med	ar weight of 25 kDa and	val in septic d 21 kDa. Application WB

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

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

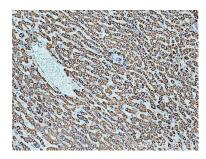
Selected Validation Data



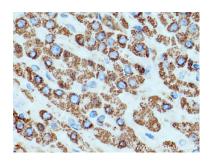
Various lysates were subjected to SDS PAGE

control.

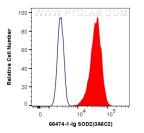
followed by western blot with 66474-1-1g (SOD2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control



Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 66474-1-Ig (SOD2 antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 66474-1-1g (SOD2 antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



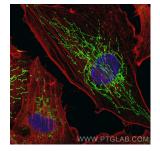
Strand and a star and a star 100 kDa-70 kDa 50 kDa 40 kDa 30 kDa 20 kDa 15 kDa-



1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human SOD2 (66474-1-1g, Clone:3A6C2) and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG2a Isotype Control (C1.18.4) (65208-1-Ig, Clone: C1.18.4) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).

Various lysates were subjected to SDS PAGE followed by western blot with 66474-1-Ig (SOD2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.

WB result of SOD2 antibody (66474-1-lg; 1:40000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SOD2 transfected HeLa cells.



Immunofluorescent analysis of (-20°C Methanol) fixed HUVEC cells using SOD2 antibody (66474-1-Ig, Clone: 3A6C2) at dilution of 1:400 and Coralite®488-Conjugated Goat Anti-Mouse IgG(H+L).