For Research Use Only

SOD1 Polyclonal antibody Catalog Number:10269-1-AP Featured Product

Featured Product



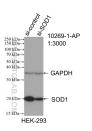


Basic Information	Catalog Number: 10269-1-AP	GenBank Accession Number: BC001034		Purification Method: Antigen affinity purification	
	Concentration:GeneID (NCBI):1000 ug/ml6647Source:UNIPROT ID:RabbitP00441Isotype:Full Name:IgGsuperoxide dismutase 1, solubleImmunogen Catalog Number:Calculated MW:AG033516 kDa		Recommended Dilutions: WB: 1:5000-1:50000		
				IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC: 1:300-1:1200 IF-P: 1:50-1:500 IF/ICC: 1:200-1:800	
			tase 1, soluble		
		Observed MW: 16-20 kDa			
Applications	WB, IHC, IF/ICC, IF-P, IP, ELISAWB :Cited Applications:SY5'WB, IHC, IF, IP, CoIP, ELISAliveSpecies Specificity:cells			itive Controls:	
			WB : HEK-293 cells, HEK-293T cells, HeLa cells, SH- SY5Y cells, Neuro-2 cells, mouse brain tissue, mous liver tissue, rat brain tissue, rat liver tissue, Jurkat		
			cells, humai	cells, human placenta tissue	
	human, mouse, rat Cited Species:			IP : HEK-293 cells, HeLa cells IHC : human liver cancer tissue, human colon tissue human heart tissue	
	human, mouse, rat, pig, canine, chicken, bovine, goat				
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0		IF-P: mouse	IF-P : mouse brain tissue,	
			IF/ICC : HEK-293 cells, HeLa cells		
Background Information	The enzymatic function of Cu/Zn Superoxide Dismutase (SOD1), previously known as hemocuprein and IPOA, was first characterized in 1969 (PMID: 5389100). SOD1 is commonly known for its ROS scavenging activity, but recent work has uncovered additional roles in modulating metabolism, maintaining redox balance, and regulating transcription. In disease contexts, SOD1 is best-known for its role in a familial form of amyotrophic lateral sclerosi (fALS) (PMID: 10630188). In addition, SOD1 is overexpressed in numerous cancer types, including lung adenocarcinoma, non-small-cell lung cancer , and 70% of primary breast cancers (PMID: 31344643).				
Notable Publications	Author Pubmed ID Journal		ournal	Application	
	Kentaro Hayashi	27716404 A	cta Neuropathol (Commun	
	Huidong Wang	36249770 F	ront Pharmacol	IF	
	Lalit Pukhrambam Singh	35187384 J	DJ Ophthalmol	WB	
Storage	Storage: Store at -20°C. Stable for one yes Storage Buffer: PBS with 0.02% sodium azide ar Aliquoting is unnecessary for -20	nd 50% glycerol, pH7.3			

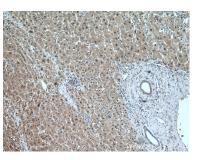
For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926 W: ptgcn.com

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

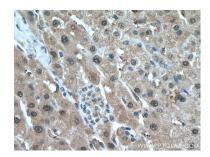
Selected Validation Data



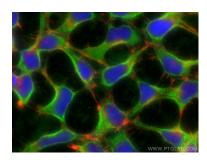
WB result of SOD1 antibody (10269-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SOD1 transfected HEK-293 cells.



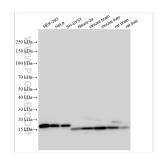
Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 10269-1-AP (SOD1 antibody) at dilution of 1:600 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



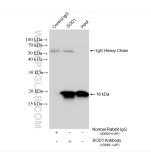
Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 10269-1-AP (SOD1 antibody) at dilution of 1:600 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



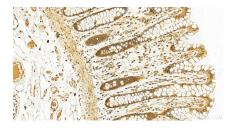
Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using SOD1 antibody (10269-1-AP) at dilution of 1:400 and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



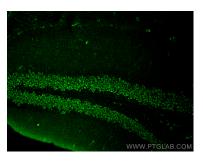
Various lysates were subjected to SDS PAGE followed by western blot with 10269-1-AP (SOD1 antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.



IP result of anti-SOD1 (IP:10269-1-AP, 4ug; Detection:10269-1-AP 1:6000) with HEK-293 cells lysate 1470 ug.



Immunohistochemical analysis of paraffinembedded human colon tissue slide using 10269-1-AP (SOD1 antibody) at dilution of 1:3000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using SOD1 antibody (10269-1-AP) at dilution of 1:200 and Multi-rAb Coralite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).