For Research Use Only

## HO-1/HMOX1 Polyclonal antibody

Catalog Number:10701-1-AP

Featured Product 1189 Publications

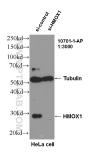
Antibodies | ELISA kits | Proteins www.ptglab.com

Basic Information	Catalog Number: 10701-1-AP	GenBank Accession Number: BC001491		Purification Method: Antigen affinity purification	
	Concentration:GeneID (NCBI):800 ug/ml3162Source:UNIPROT ID:RabbitP09601Isotype:Full Name:IgGheme oxygenase (decycling) 1		):	Recommended Dilutions: WB: 1:1000-1:6000 IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC: 1:50-1:500	
			ase (decycling) 1	IF-P: 1:50-1:500 IF-Fro: 1:50-1:500	
	Immunogen Catalog Number: AG1190	Calculated MW: 33 kDa Observed MW: 28-33 kDa		FC (Intra): 0.40 ug per 10^6 cells in a 100 µl suspension	
Applications	Tested Applications:		Positive Co	Positive Controls:	
	WB, IHC, IF-P, IF-Fro, FC (Intra), IP, ELISA Cited Applications:			WB : HT-1080 cells, HeLa cells, rat spleen tissue, HepG cells, mouse liver tissue, rat liver tissue, mouse kidney tissue, mouse spleen tissue	
	WB, IHC, IF, IP, CoIP				
	Species Specificity:		IP : HeLa ce	IP : HeLa cells,	
	human, mouse, rat		IHC : mous	IHC : mouse spleen tissue,	
	Cited Species: human, mouse, rat, pig, monkey, chicken, bovine, goat		at IF-P : mous	IF-P : mouse spleen tissue,	
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0		IE Ero : mo	IF-Fro : mouse spleen tissue,	
			FC (Intra) :	FC (Intra) : HeLa cells,	
Background Information	Heme oxygenase (HMOX1) catalyzes the first and rate-limiting step in the degradation of heme to yield equimolar quantities of biliverdin Ixa, carbon monoxide (CO), and iron. It has 3 isoforms: HO-1 is highly inducible, whereas HO-2 and HO-3 are constitutively expressed (PMID:10194478). Heme oxygenase-1 (HO-1) is expressed in many tissues and vascular smooth muscle cells, and endothelial cells (PMID:15451051) and has been identified as an important endogenous protective factor induced in many cell types by various stimulants, such as hemolysis, infiammatory cytokines,oxidative stress, heat shock, heavy metals, and endotoxin (PMID: 11522663). And the full-length HO-1 is very unstable and susceptible to truncation that generates an inactive, soluble form (28 kDa) (James R. Reed, Pharmacology, 535-568).				
Notable Publications	Author	Pubmed ID	Journal	Application	
	Yanan Zhao	36166594	J Agric Food Chen	n WB	
	Guangping Lu	36235670	Nutrients	WB,IF	
	Zhenmao Jia	36238566	Front Pharmacol	WB	
Storage	Storage: Store at -20°C. Stable for one yea Storage Buffer: PBS with 0.02% sodium azide an Aliquoting is unnecessary for -20	d 50% glycerol, pH7	7.3		

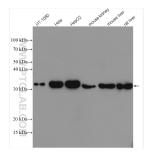
For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

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

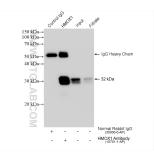
## Selected Validation Data



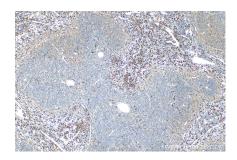
WB result of HMOX1 antibody (10701-1-AP, 1:3000) with si-Control and si-HMOX1 transfected HeLa cells.



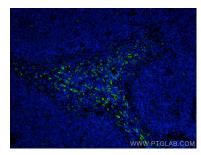
Various lysates were subjected to SDS PAGE followed by western blot with 10701-1-AP (HO-1/HMOX1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



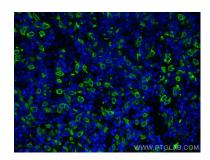
IP result of anti-HO-1/HMOX1 (IP:10701-1-AP, 4ug; Detection:10701-1-AP 1:20000) with HeLa cells lysate 1360 ug.



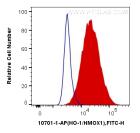
Immunohistochemical analysis of paraffinembedded mouse spleen tissue slide using 10701-1-AP (HO-1/HMOX1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



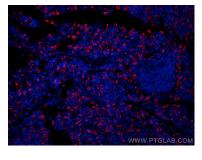
Immunofluorescent analysis of (4% PFA) fixed mouse spleen tissue using HO-1/IMOX1 antibody (10701-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



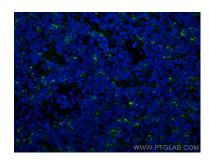
Immunofluorescent analysis of (4% PFA) fixed mouse spleen tissue using HO-1/IMOX1 antibody (10701-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human HO-1/HMOX1 (10701-1-AP) and Coralite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse spleen tissue using HO-1/HMOX1 antibody (10701-1-AP) at dilution of 1:200 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of frozen OCTembedded mouse spleen tissue using HO-1/HMOX1 antibody (10701-1-AP) at dilution of 1:200 and Coralite®488-Conjugated AffniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).