For Research Use Only

HO-1/HMOX1 Monoclonal antibody

Catalog Number:66743-1-Ig Featured Product 154 Publications



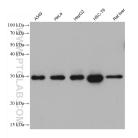
Basic Information	Catalog Number: 66743-1-Ig	GenBank Accession BC001491	Number:	Purification Method: Protein A purification	
	Size:				
	150ul , Concentration: 1000 ug/ml by	GeneID (NCBI): 3162		CloneNo.: 2D10A5	
	Nanodrop;	UNIPROT ID:		Recommended Dilutions:	
	Source:	P09601		WB: 1:1000-1:6000	
	Mouse	Full Name:		IHC: 1:500-1:2000 IF-P: 1:200-1:800 FC (Intra): 0.40 ug per 10^6 cells in a 100 μl suspension	
	lsotype:	heme oxygenase (decycling) 1			
	lgG2a	Calculated MW:			
	Immunogen Catalog Number: AG21296	33 kDa			
		Observed MW: 33 kDa			
Applications	Tested Applications:	HepG2 cells,		trols:	
	WB, IHC, IF-P, FC (Intra), ELISA			93 cells, A549 cells, pig spleen tissue, 5, HeLa cells, HSC-T6 cells, rat liver tissue issue, pig liver tissue, rabbit liver tissue	
	Cited Applications: WB, IHC, IF, IP, CoIP				
	Species Specificity:				
	human, mouse, rat, pig, rabbit			n liver cancer tissue, human renal cell issue, human kidney tissue	
	Cited Species:			spleen tissue, rat liver tissue	
	human, mouse, rat, pig, sheep		FC (Intra) : H	•	
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0				
	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 ful- length HO-1 is very unstable and susceptible to truncation that generates an inactive, soluble form (28 kDa) (Jame R. Reed, Pharmacology, 535-568).				
Background Information	quantities of biliverdin Ixa, carbon m HO-2 and HO-3 are constitutively exp tissues and vascular smooth muscle of important endogenous protective fac infiammatory cytokines, oxidative stu length HO-1 is very unstable and susc	onoxide (CO), and ir pressed (PMID:10194 cells, and endothelia tor induced in many cess, heat shock, hear	on. It has 3 isofo 478). Heme oxyg l cells (PMID:154 cell types by var vy metals, and e	rms: HO-1 is highly inducible, whereas genase-1 (HO-1) is expressed in many 51051) and has been identified as an ious stimulants, such as hemolysis, ndotoxin (PMID: 11522663). And the ful	
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T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com in USA), or 1(312) 455-8498 (outside USA)

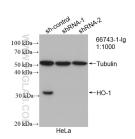
W: ptglab.com

Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



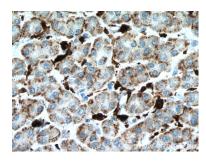
Various lysates were subjected to SDS PAGE followed by western blot with 66743-1-1g (HO-1/HMOX1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



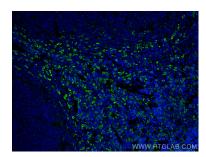
WB result of HO-1/HMOX1 antibody (66743-1-lg; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-HO-1/HMOX1 transfected HeLa cells.



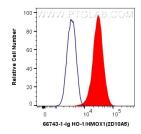
Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 66743-1-1g (HO-1/HMOX1 antibody) at dilution of 1:1000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



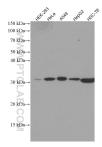
Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 66743-1-1g (HO-1/HMOX1 antibody) at dilution of 1:1000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



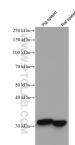
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse spleen tissue using HO-1/HMOX1 antibody (66743-1-Ig, Clone: 2D10A5) at dilution of 1:250 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10^6 HeLa cells were intracellularly stained with 0.4 ug HO-1/HMOX1 Monoclonal antibody (66743-1-lg, Clone:2D10A5) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L)(red), or 0.4 ug Mouse IgG2a Isotype Control (C1.18.4) (65208-1-lg, 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 66743-1-1g (HO-1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 66743-1-Ig (HO-1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.