

For Research Use Only

HO-1/HMOX1 Polyclonal antibody, PBS Only

Catalog Number: 10701-1-PBS

Featured Product



Basic Information

Catalog Number: 10701-1-PBS	GenBank Accession Number: BC001491	Purification Method: Antigen affinity purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 3162	
Source: Rabbit	UNIPROT ID: P09601	
Isotype: IgG	Full Name: heme oxygenase (decycling) 1	
Immunogen Catalog Number: AG1190	Calculated MW: 33 kDa	
	Observed MW: 28-33 kDa	

Applications

Tested Applications:
WB, IHC, IF-P, IF-Fro, FC (Intra), IP, Indirect ELISA

Species Specificity:
human, mouse, rat

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, inflammatory 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).

Storage

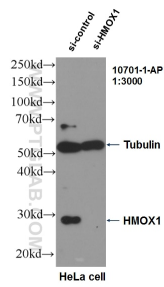
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

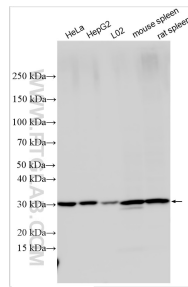
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

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

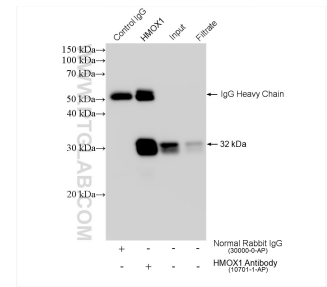
Selected Validation Data



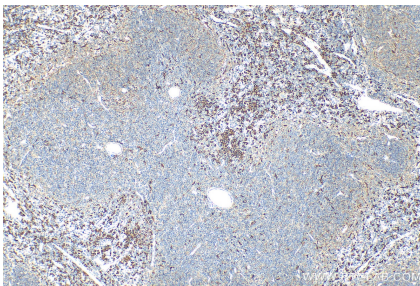
WB result of HMOX1 antibody (10701-1-AP, 1:3000) with si-Control and si-HMOX1 transfected HeLa cells. This data was developed using the same antibody clone with 10701-1-PBS in a different storage buffer formulation.



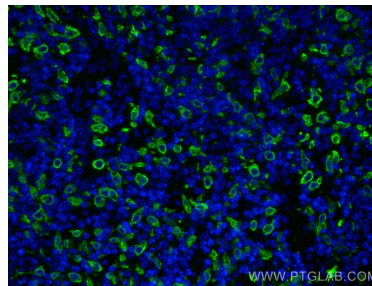
Various lysates were subjected to SDS PAGE followed by western blot with 10701-1-AP (HO-1/HMOX1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 10701-1-PBS in a different storage buffer formulation.



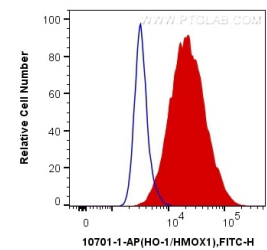
IP result of anti-HO-1/HMOX1 (IP:10701-1-AP, 4ug; Detection:10701-1-AP 1:20000) with HeLa cells lysate 1360 ug. This data was developed using the same antibody clone with 10701-1-PBS in a different storage buffer formulation.



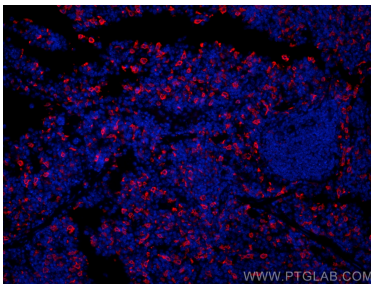
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 10701-1-AP (HO-1/HMOX1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 10701-1-PBS in a different storage buffer formulation.



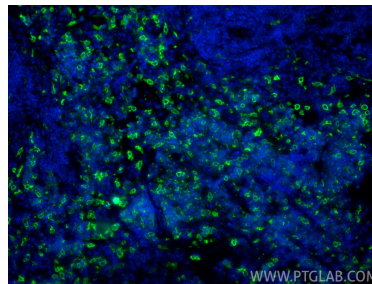
Immunofluorescent analysis of (4% PFA) fixed mouse spleen tissue using HO-1/HMOX1 antibody (10701-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 10701-1-PBS in a different storage buffer formulation.



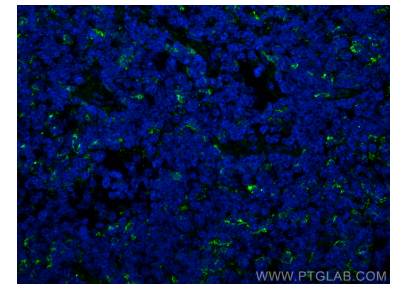
1×10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human HO-1/HMOX1 (10701-1-AP) and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 10701-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 10701-1-PBS in a different storage buffer formulation.



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@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 10701-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of frozen OCT-embedded mouse spleen tissue using HO-1/HMOX1 antibody (10701-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 10701-1-PBS in a different storage buffer formulation.