

For Research Use Only

HO-1/HMOX1 Polyclonal antibody

Catalog Number: 27282-1-AP

131 Publications



Basic Information

Catalog Number: 27282-1-AP	GenBank Accession Number: BC001491	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 400 µg/ml by Nanodrop and 200 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 3162	Recommended Dilutions: WB 1:500-1:3000 IHC 1:200-1:1000
Source: Rabbit	UNIPROT ID: P09601	
Isotype: IgG	Full Name: heme oxygenase (decycling) 1	
Immunogen Catalog Number: AG26172	Calculated MW: 33 kDa	
	Observed MW: 33 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls: WB : HeLa cells, A549 cells, mouse spleen tissue IHC : human kidney tissue,
Cited Applications: WB, IHC, IF	
Species Specificity: human, mouse	
Cited Species: human, mouse, rat, pig, chicken, hamster	
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

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).

Notable Publications

Author	Pubmed ID	Journal	Application
Dan Tang	34815154	Phytomedicine	WB
Lu Wang	34555641	Int Immunopharmacol	WB
Jian Chen	36187836	Front Vet Sci	WB

Storage

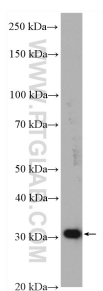
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

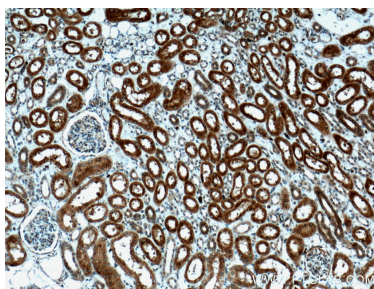
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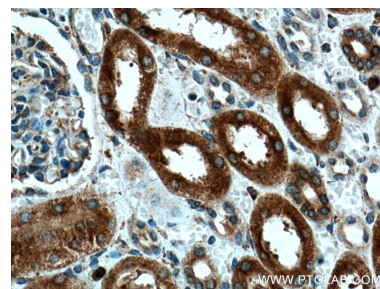
Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 27282-1-AP (HO-1/HMOX1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 27282-1-AP (HO-1 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 27282-1-AP (HO-1 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).