

HMOX1 Polyclonal Antibody

Catalog number: 10701-1-AP

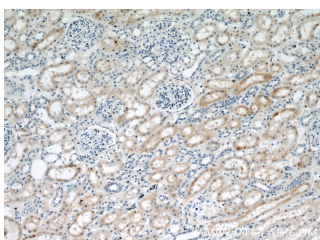
Size: 59 µg/150 µl

Source: Rabbit

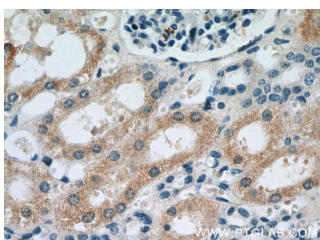
Isotype: IgG

Synonyms:

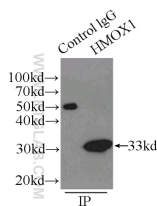
HMOX1; bK286B10, heme oxygenase (decycling) 1, Heme oxygenase 1, HMOX1, HO, HO 1, HO1, HSP32



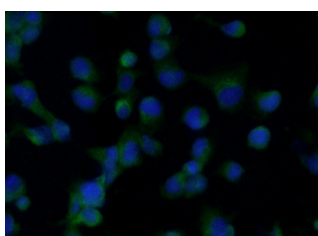
Immunohistochemical of paraffin-embedded human kidney using 10701-1-AP(HMOX1 antibody) at dilution of 1:50 (under 10x lens)



Immunohistochemical of paraffin-embedded human kidney using 10701-1-AP(HMOX1 antibody) at dilution of 1:50 (under 40x lens)



IP Result of anti-HMOX1 (IP:10701-1-AP, 3µg; Detection:10701-1-AP 1:1000) with HeLa cells lysate 3000µg.



Background

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).

Applications

Tested applications:	ELISA, WB, IHC, IP, IF
Cited applications:	IHC, WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Human, mouse, rat
Calculated HMOX1 MW:	33 kDa
Observed HMOX1 MW:	28-33 kDa
Positive WB detected in	Mouse liver tissue, HeLa cells, HepG2 cells, HT-1080 cells, rat spleen tissue
Positive IP detected in	HeLa cells
Positive IHC detected in	Human kidney tissue
Positive IF detected in	HT-1080 cells
Recommended dilution:	WB: 1:200-1:2000 IP: 1:500-1:5000 IHC: 1:20-1:200 IF: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag1190
GenBank accession number:	BC001491
Gene ID (NCBI):	3162
Full name:	Heme oxygenase (decycling) 1

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.

mouse liver tissue were subjected to SDS PAGE followed by western blot with 10701-1-AP(HMOX1 antibody) at dilution of 1:600

Immunofluorescent analysis of (-20% Ethanol) fixed HT-1080 cells using 10701-1-AP(HO-1 Antibody) at dilution of 1:50 and Alexa Fluor 488- conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)