For Research Use Only

HO-1 Recombinant antibody

Catalog Number:81281-1-RR Featured Product 16 Publications

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Basic Information

Catalog Number:
81281-1-RR

Size:
100ul , Concentration: 500 µg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1190

GenBank Accession Number:
BC001491

GeneID (NCBI):
3162

UNIPROT ID:
P09601

Full Name:
heme oxygenase (decycling) 1

Calculated MW:
33 kDa

Observed MW:
33 kDa

Purification Method:
Protein A purification

CloneNo.:
2M6

Recommended Dilutions:
WB 1:5000-1:50000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

Applications

Tested Applications:
WB, IP, ELISA

Cited Applications:
WB

Species Specificity:
Human, Rat

Cited Species:
human, rat, mouse

Positive Controls:

WB : A549 cells, HeLa cells, HepG2 cells, U2OS cells, HSC-T6 cells, rat spleen tissue

IP : 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).

Notable Publications

Author	Pubmed ID	Journal	Application
Hui Fan	38135199	Chem Biol Interact	WB
Guangwei Yang	38087869	J Diabetes	WB
Jiashe Chen	38091639	Biomed Pharmacother	WB

Storage

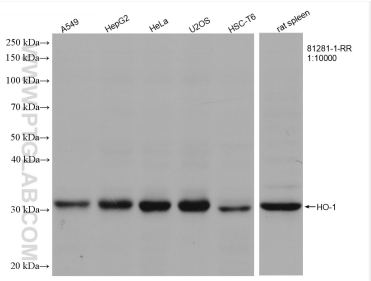
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

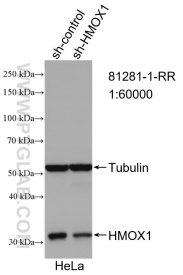
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

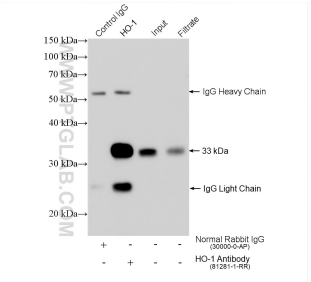
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 81281-1-RR (HO-1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



WB result of HO-1 antibody (81281-1-RR; 1:60000; incubated at room temperature for 1.5 hours) with sh-Control and sh-HO-1 transfected HeLa cells.



IP result of anti-HO-1 (IP:81281-1-RR, 4ug; Detection:81281-1-RR 1:8000) with HeLa cells lysate 1560 ug.