For Research Use Only

HO-1/HMOX1 Monoclonal antibody, PBS Only

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Antibodies | ELISA kits | Proteins
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Catalog Number:66743-1-PBS Featured Product

Basic Information

Catalog Number:
66743-1-PBS

Size:
1 mg/ml

Source:
Mouse

Isotype:
IgG2a

Immunogen Catalog Number:
AG21296

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.:
2D10A5

Applications

Tested Applications:
WB,IHC,IF,FC,ELISA

Species Specificity:
Human, Mouse, Rat, Pig, Pig, Rabbit

Background Information

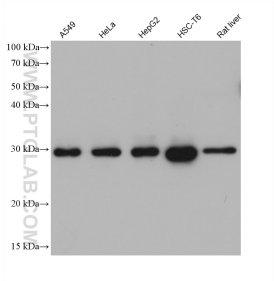
Heme oxygenase (HMOX1) catalyzes the first and rate-limiting step in the degradation of heme to yield equimolar quantities of biliverdin Ixa, carbon monoxide (CO), and iron. It has 3 isoforms: HO-1 is highly inducible, whereas HO-2 and HO-3 are constitutively expressed (PMID:10194478). Heme oxygenase-1 (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). 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

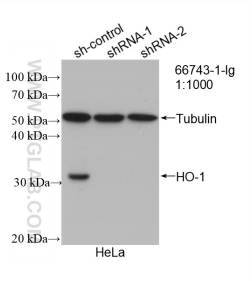
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS only
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

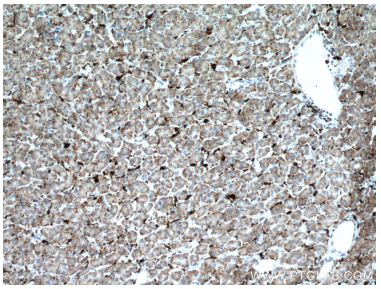
Selected Validation Data



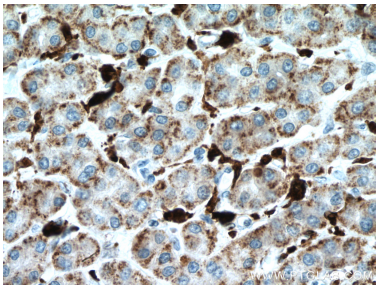
Various lysates were subjected to SDS PAGE followed by western blot with 66743-1-Ig (HO-1/HMOX1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66743-1-PBS in a different storage buffer formulation.



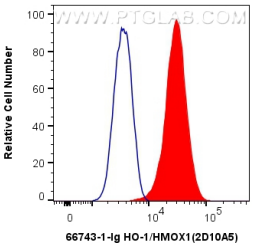
WB result of HO-1/HMOX1 antibody (66743-1-Ig; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-HO-1/HMOX1 transfected HeLa cells. This data was developed using the same antibody clone with 66743-1-PBS in a different storage buffer formulation.



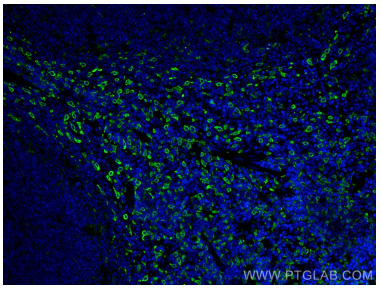
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66743-1-Ig (HO-1/HMOX1 antibody) at dilution of 1:1000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66743-1-PBS in a different storage buffer formulation.



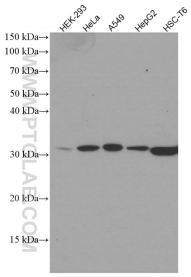
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66743-1-Ig (HO-1/HMOX1 antibody) at dilution of 1:1000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66743-1-PBS in a different storage buffer formulation.



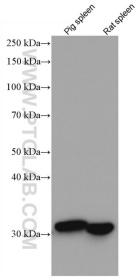
1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human HO-1/HMOX1 (66743-1-Ig, Clone:2D10A5) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG2a Isotype Control (C1.18.4) (65208-1-Ig, Clone: C1.18.4) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 66743-1-



Immunofluorescent analysis of (4% PFA) fixed mouse spleen tissue using HO-1/HMOX1 antibody (66743-1-Ig, Clone: 2D10A5) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 66743-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 66743-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 66743-1-PBS in a different storage buffer formulation.