Product Datasheet

Heme Oxygenase 1(HO-1) Rabbit mAb

Catalog No: #48715

Package Size: #48715-1 50ul #48715-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Heme Oxygenase 1(HO-1) Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Clone No.	SP08-07
Purification	ProA affinity purified
Applications	WB IHC ICC/IF IP FC
Species Reactivity	Human;Mouse;Rat
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	32 kD antibody bK286B10 antibody D8Wsu38e antibody heat shock protein 32 kD antibody heat shock protein 32kD antibody Heat shock protein antibody Heme oxygenase (decycling) 1 antibody Heme oxygenase 1 antibody Hemox antibody HMOX 1 antibody Hmox antibody Hmox1 antibody HMOX1_HUMAN antibody HO 1 antibody HO antibody HO-1 antibody HO1 antibody Hsp32 antibody
Accession No.	Swiss-Prot#:P09601
Calculated MW	33 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

Application Details

WB 1:1000~1:5000

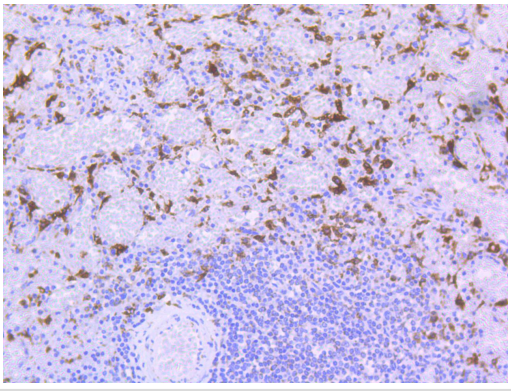
IHC 1:1000~1:10000

ICC/IF 1:100~1:500

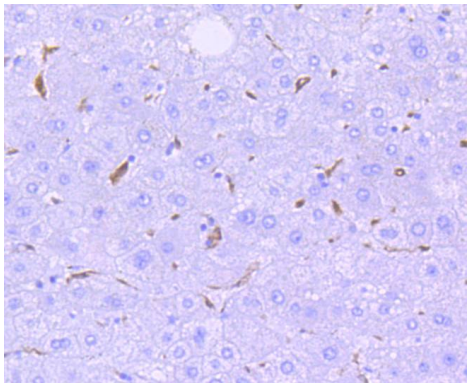
IP 1:50

FC 1:50

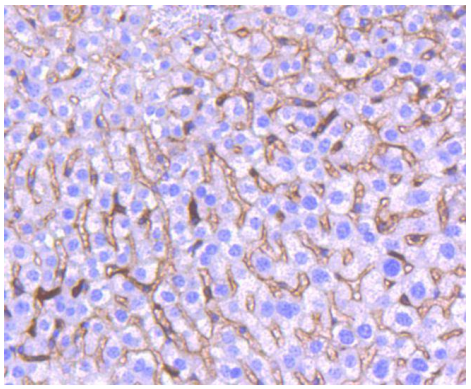
Images



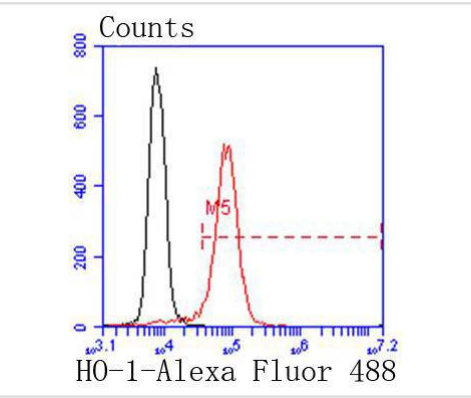
Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-HO-1 antibody. Counter stained with hematoxylin.



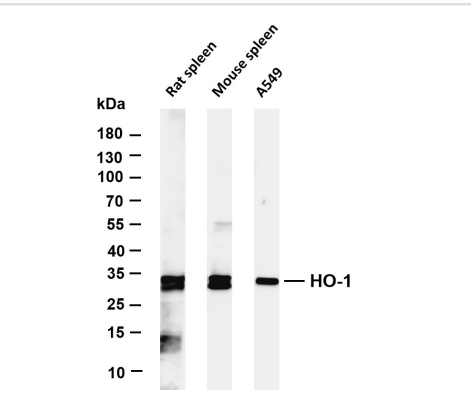
Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-HO-1 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse liver tissue using anti-HO-1 antibody. Counter stained with hematoxylin.



Flow cytometric analysis of Jurkat cells with HO-1 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as secondary antibody.



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-HO-1 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Rat spleen Lane 2: Mouse spleen Lane 3: A549 Predicted band size: 33kDa Observed band size: 33kDa

Background

Heme oxygenases are microsomal enzymes that cleave heme to produce the antioxidant biliverdin, inorganic iron and carbon monoxide (CO). The activity of Heme Oxygenase 1 (HO-1), also designated HSP 32, is highly inducible in response to numerous stimuli, including heme, heavy metals, hormones and oxidative stress. Heme Oxygenase 2, in contrast, appears to be constituitively expressed in mammalian tissues. Heme Oxygenase 2 is involved in the production of carbon monoxide (CO) in brain, where CO is thought to act as a neurotransmitter. The CO signaling system closely parallels the signaling pathway involving nitric oxide, and regulation of the two systems is closely linked. Heme Oxygenase 3 is found in the spleen, liver, thymus, prostate, heart, kidney, brain and testis. A poor heme catalyst, Heme Oxygenase 3 has two heme regulatory motifs that may be involved in heme binding.

References

1. He C et al. Vasoprotective effect of PDGF-CC mediated by HMOX1 rescues retinal degeneration. Proc Natl Acad Sci U S A 111:14806-11 (2014).
2. Maruyama A et al. Non-coding RNA derived from the region adjacent to the human HO-1 E2 enhancer selectively regulates HO-1 gene induction by modulating Pol II binding. Nucleic Acids Res 42:13599-614 (2014).

Published Papers

Lin Ruohong, Zhou Zhiwei, Jiang Yizhou, Liu Song, Xie Jinfeng, Wang Haitao, Ulrich Henning, Zheng Wenhua el at., Artemisinin exerts antidepressant-like effects via activation of AKT and ERK signaling pathways, Frontiers in pharmacology, (2025)
PMID:41181594

Note: This product is for in vitro research use only and is not intended for use in humans or animals.