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Anti-Heme Oxygenase 1 HMOX1 Rabbit Monoclonal Antibody

Catalog Number: M00253

Overview

Product Name	Anti-Heme Oxygenase 1 HMOX1 Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-Heme Oxygenase 1 HMOX1 Rabbit Monoclonal Antibody catalog # M00253. Tested in WB, IHC, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse.
Application	Flow Cytometry, IP, IHC, WB
Clonality	Monoclonal AEG-8
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P09601

Technical Details

Immunogen	A synthesized peptide derived from human Heme Oxygenase 1
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5mg/ml
Purification	Affinity-chromatography
Suggested Dilutions	WB 1:500-2000 IHC 1:50-200 IP 1:20 FC 1:20

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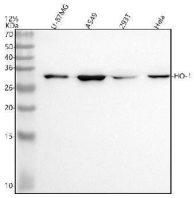
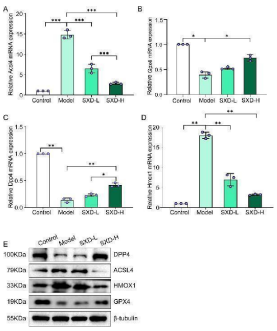
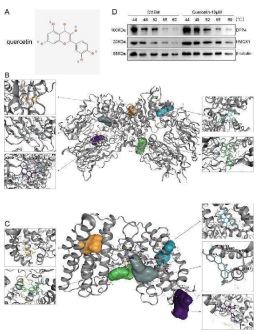
Anti-Heme Oxygenase 1 HMOX1 Rabbit Monoclonal Antibody (M00253) Images



Western blot analysis of HO-1 using anti-HO-1 antibody (M00253). Electrophoresis was performed on a 12% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human U87-MG whole cell lysates, Lane 2: human A549 whole cell lysates, Lane 3: human 293T whole cell lysates, Lane 4: human Hela whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-HO-1 antigen affinity purified monoclonal antibody (M00253) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for HO-1 at approximately 33 kDa. The expected band size for HO-1 is at 33 kDa.



SXD remarkably affected the ferroptosis-related markers in CoCl 2 -induced hypoxic H9c2 cells. (A–D) mRNA expressions of ACSL4, GPX4, DPP4, and HMOX1 in different groups, separately. (E) Protein expressions of ACSL4, GPX4, DPP4, and HMOX1 in different groups. *P < 0.05, **P < 0.01, and ***P < 0.001.Index in PubMed under a CC BY license. PMID: 40365322



Molecular docking results. (A) Structure of quercetin. (B, C) Molecular docking of quercetin with DPP4 (B) and HMOX1 (C) . (D) Results of the CETSA assay.Index in PubMed under a CC BY license. PMID: 40365322

IHC analysis of Heme Oxygenase 1 using anti-Heme Oxygenase 1 antibody (M00253). Heme Oxygenase 1 was detected in a paraffin-embedded section of human spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-Heme Oxygenase 1 Antibody (M00253) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as

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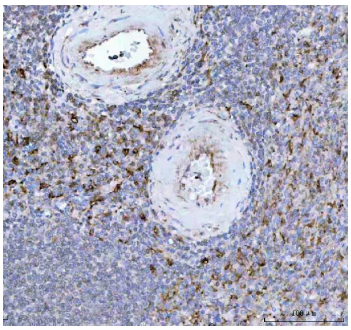

secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

8 Publications Citing This Product

1. PubMed ID: 33359640, Li D,Bai X,Jiang Y,Cheng Y.Butyrate alleviates PTZ-induced mitochondrial dysfunction, oxidative stress and neuron apoptosis in mice via Keap1/Nrf2/HO-1 pathway.Brain Res Bull.2020 Dec 28;168:25-35.doi:10.1016/j.brainresbull.2020.12.009.Epub ahead of print

2. PubMed ID: 25269519, Liu Mw, Wang Yh, Qian Cy, Li H. Int J Mol Med. 2014 Dec;34(6):1492-504. Doi: 10.3892/Ijmm.2014.1943. Epub 2014 Sep 23. Xuebijing Exerts Protective Effects On Lung Permeability Leakage And Lung Injury By Upregulating Toll-Interacting Protein Expres...

3. PubMed ID: 22614123, Mo L, Yang C, Gu M, Zheng D, Lin L, Wang X, Lan A, Hu F, Feng J. Int J Mol Med. 2012 Aug;30(2):314-20. Doi: 10.3892/Ijmm.2012.1002. Epub 2012 May 14. Pi3K/Akt Signaling Pathway-Induced Heme Oxygenase-1 Upregulation Mediates The Adaptiv...

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