

Datasheet for ABIN3021907
anti-HMOX1 antibody (AA 1-288)

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Overview

Quantity:	100 µL
Target:	HMOX1
Binding Specificity:	AA 1-288
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HMOX1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-288 of human Heme Oxygenase 1 (HO-1/HMOX1) (NP_002124.1).
Sequence:	MERPQDSMP QDLSEALKEA TKEVHTQAE AEFMRNFQKG QVTRDGFGLV MASLYHIYVA LEEEIERNKE SPVFAPVYFP EELHRKAALE QDLAFWYGPR WQEVIPYTPA MQRVYKRLHE VGRTEPELLV AHAYTRYLGD LSGGQVLKKI AQAALDLPSS GEGLAFFTFP NIASATKFKQ LYRSRMNSLE MTPAVRQRVI EEAKTAFLLN IQLFEELQEL LTHDTKDQSP SRAPGLRQRA SNKVQDSAPV ETPRGKPLN TRSQAPLLRW VLTLSFLVAT VAVGLYAM
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	HMOX1
Alternative Name:	HMOX1 (HMOX1 Products)
Background:	Heme oxygenase, an essential enzyme in heme catabolism, cleaves heme to form biliverdin, which is subsequently converted to bilirubin by biliverdin reductase, and carbon monoxide, a putative neurotransmitter. Heme oxygenase activity is induced by its substrate heme and by various nonheme substances. Heme oxygenase occurs as 2 isozymes, an inducible heme oxygenase-1 and a constitutive heme oxygenase-2. HMOX1 and HMOX2 belong to the heme oxygenase family.,HMOX1,HMOX1D,HO-1,HSP32,bK286B10,Epigenetics & Nuclear Signaling,Cancer,Signal Transduction,Endocrine & Metabolism,Immunology & Inflammation,Neuroscience,Neurodegenerative Diseases,Amyloid Plaque and Neurofibrillary Tangle Formation in Alzheimer's Disease,Cardiovascular,Blood,Hypoxia,HMOX1
Molecular Weight:	32 kDa
Gene ID:	3162
UniProt:	P09601
Pathways:	Transition Metal Ion Homeostasis , Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process , Production of Molecular Mediator of Immune Response , SARS-CoV-2 Protein Interactome

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze / thaw cycles
Storage:	-20 °C

Handling

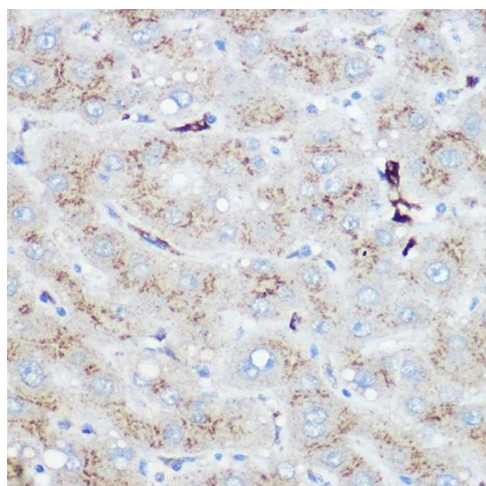
Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

Publications

Product cited in: Zhou, Jiang, Dong, Yan, You, Su, Gong: "The proteins interacting with C-terminal of μ receptor are identified by bacterial two-hybrid system from brain cDNA library in morphine-dependent rats." in: **Life sciences**, Vol. 143, pp. 156-67, (2016) ([PubMed](#)).

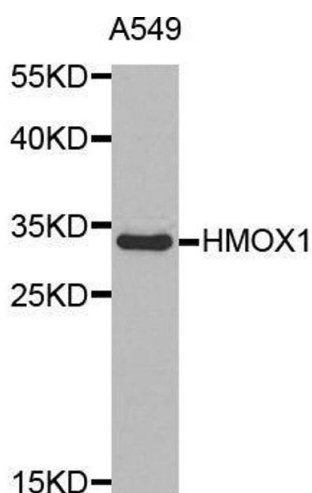
There are more publications referencing this product on: [Product page](#)

Images



Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human liver using Heme Oxygenase 1 (HO-1/HMOX1) Rabbit pAb (ABIN3021906, ABIN3021907, ABIN3021908 and ABIN6217466) at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

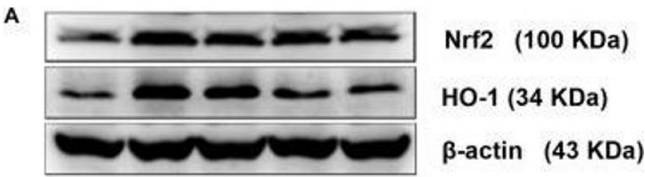


Western Blotting

Image 2. Western blot analysis of extracts of A549 cell line, using HMOX1 antibody.

Western Blotting

Image 3. Comparison of Nrf2 and HO-1 protein and mRNA levels in the brains of mice among the groups. (A) Western blot analysis. Images are the representative results of five separate experiments for each group. (B) Densitometric analysis of Western blots, showing the relative intensity in arbitrary units compared with β -actin. (C) Quantitation of mRNA by real-time RT-PCR. Gene expression was normalized to GAPDH and is presented as fold change vs. the control group. Groups A to E represent the control group, the 1,2-DCE-poisoned group, and the low-, medium- and high-dose DAS intervention groups, respectively. Data are expressed as the means \pm SD and were analyzed by one-way ANOVA. Significant difference was defined as p less than 0.05. , vs. the control group, #, vs. the 1,2-DCE-poisoned group, +, vs. the low-dose DAS intervention group, &, vs. the medium-dose DAS intervention group. The number of mice in each group was 5. - figure provided by CiteAb. Source: PMID30524279



Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3021907.