Datasheet for ABIN968130

anti-HMOX1 antibody (AA 150-286)

4 Images | 4 Publications

Go to Product page

Overview

Quantity:	150 µg
Target:	HMOX1
Binding Specificity:	AA 150-286
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This HMOX1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF)

Product Details

Immunogen:	Human Heme Oxygenase 1 (HO-1) aa. 150-286
Clone:	23-Heme Oxygenase 1
Isotype:	IgG1
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

	chromatography.

Target Details

Target:	HMOX1
Alternative Name:	Heme Oxygenase 1 (HMOX1 Products)
Background:	Heme oxygenases 1 and 2 (HO-1, HO-2) cleave the heme molecule, resulting in the production of carbon monoxide (CO) and biliverdin. HO-1 is a 288 amino acid monooxygenase with a molecular weight of 32 kDa. While HO-2 is constitutively expressed in tissues, HO-1 is rapidly induced by several stimuli such as lutathione depletion, hemin, heat shock, heavy metals, oxidative stress, oxidized LDL, anoxia, and endotoxic shock. Similar to nitric oxide (NO), CO activates guanylate cyclase and reduces platelet aggregation. Several conditions that increase NO also induce HO-1 expression and activity. This suggests that NO synthases, Cox-2, and HO-1 are part of a general defense mechanism against stress and pathogen invasion.
Molecular Weight:	32 kDa
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

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20°C.

Publications

Product cited in:

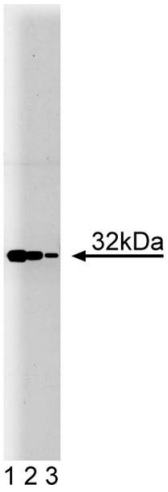
Suzuki, Ishizaka, Tsukamoto, Minami, Taguchi, Nagai, Ohno: "Pressurization facilitates adenovirus-mediated gene transfer into vein graft." in: **FEBS letters**, Vol. 470, Issue 3, pp. 370-4, (2000) (PubMed).

Foresti, Clark, Green, Motterlini: "Thiol compounds interact with nitric oxide in regulating heme oxygenase-1 induction in endothelial cells. Involvement of superoxide and peroxynitrite anions." in: **The Journal of biological chemistry**, Vol. 272, Issue 29, pp. 18411-7, (1997) (PubMed).

Ishikawa, Navab, Leitinger, Fogelman, Lusis: "Induction of heme oxygenase-1 inhibits the monocyte transmigration induced by mildly oxidized LDL." in: **The Journal of clinical investigation**, Vol. 100, Issue 5, pp. 1209-16, (1997) (PubMed).

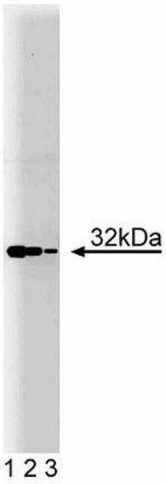
Yoshida, Biro, Cohen, Müller, Shibahara: "Human heme oxygenase cDNA and induction of its mRNA by hemin." in: **European journal of biochemistry / FEBS**, Vol. 171, Issue 3, pp. 457-61, (1988) (PubMed).

Images



Western Blotting

Image 1.



Western Blotting

Image 2. Western blot analysis of Heme Oxygenase 1 on SW13 lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of Heme Oxygenase 1.

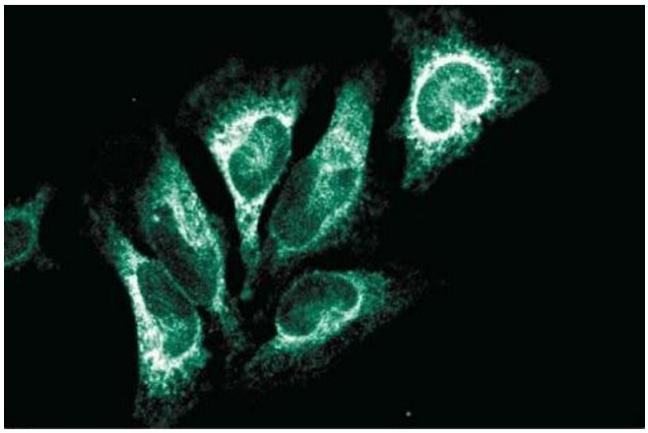


Image 3. HeLa

Please check the product details page for more images. Overall 4 images are available for ABIN968130.