Datasheet for ABIN3042448

anti-HMOX1 antibody (AA 2-261)

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Overview

Quantity:	100 µg
Target:	HMOX1
Binding Specificity:	AA 2-261
Reactivity:	Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HMOX1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	Anti-Heme Oxygenase 1/HMOX1 Antibody Picoband®
Immunogen:	E.coli-derived mouse HMOX1 recombinant protein (Position: E2-T261). Mouse HMOX1 shares 82% and 93% amino acid (aa) sequences identity with human and rat HMOX1, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-Heme Oxygenase 1/HMOX1 Antibody Picoband® (ABIN3042448). Tested in IHC, WB applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	HMOX1
Alternative Name:	HMOX1 (HMOX1 Products)
Background:	Synonyms: Heme oxygenase 1,HO-1,1.14.99.3,P32 protein,Hmox1, Tissue Specificity: Expressed in cells lacking fibronectin. . Background: HMOX1 (heme oxygenase (decycling) 1) is a human gene that encodes for the enzyme heme oxygenase 1. It is an essential enzyme in heme catabolism, it cleaves heme to form biliverdin. HMOX1 belongs to the heme oxygenase family. The HMOX1 gene is located on the long (q) arm of chromosome 22 at position 12.3, from base pair 34,101,636 to base pair 34,114,748. HMOX1, 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. HMOX1 activity is induced by its substrate heme and by various nonheme substances. Sequence Similarities: Belongs to the intermediate filament family.
Molecular Weight:	33 kDa
Gene ID:	15368
UniProt:	P14901
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

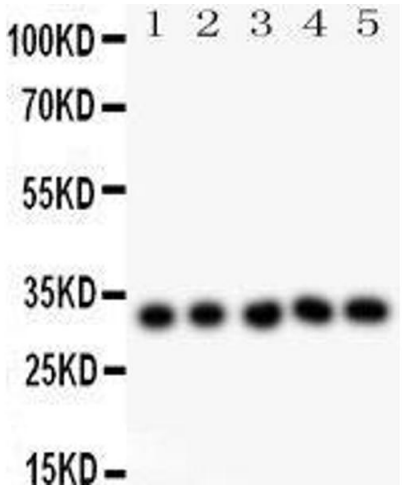
Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Mouse, Rat Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/mL, Mouse, Rat 1. He, C. H., Gong, P., Hu, B., Stewart, D., Choi, M. E., Choi, A. M. K., Alam, J.Identification of activating transcription factor 4 (ATF4) as an Nrf2-interacting protein: implication for heme oxygenase-1 gene regulation. J. Biol. Chem. 276: 20858-20865, 2001. 2. Piantadosi CA, Withers CM, Bartz RR, MacGarvey NC, Fu P, Sweeney TE, Welty-Wolf KE, Suliman HB (May 2011). "Heme oxygenase-1 couples activation of mitochondrial biogenesis to anti-inflammatory cytokine expression". J. Biol. Chem.286 (18): 16374-85.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.

Images



Western Blotting

Image 1.