Datasheet for ABIN7600483

anti-HMOX1 antibody (AA 2-261)

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Overview

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

Product Details

Purpose:	Anti-Heme Oxygenase 1/Hmox1 Antibody Picoband®
Immunogen:	E.coli-derived rat Heme Oxygenase 1/Hmox1 recombinant protein (Position: E2-T261).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Heme Oxygenase 1/Hmox1 Antibody Picoband® (ABIN7600483). Tested in ELISA, WB applications. This antibody reacts with 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: Angiotensin-converting enzyme, ACE, Dipeptidyl carboxypeptidase I, Kininase II, CD143, Angiotensin-converting enzyme, soluble form, Ace, Dcp1 Tissue Specificity: Testis-specific isoform is expressed in spermatocytes, adult testis. Background: HMOX1 (heme oxygenase (decycling) 1), also known as HO-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.
Molecular Weight:	33 kDa
Gene ID:	24451
UniProt:	P06762
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/mL, Rat ELISA, 0.1-0.5 µg/mL/mL, 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.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 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, 0.2 mg Na2HPO4.
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.