

Anti-Heme Oxygenase 1/Hmox1 Antibody Picoband®

Catalog Number: A00253-1

About Hmox1

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.

Overview

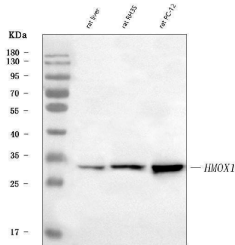
Product Name	Anti-Heme Oxygenase 1/Hmox1 Antibody Picoband®
Reactive Species	Rat
Description	Boster Bio Anti-Heme Oxygenase 1/Hmox1 Antibody Picoband® catalog # A00253-1. Tested in ELISA, WB applications. This antibody reacts with Rat. The brand Picoband indicates this is a premium antibody that guarantees 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.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage Instructions	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.
Host	Rabbit
Uniprot ID	P06762

Technical Details

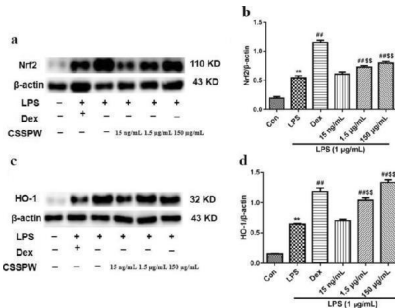
Immunogen	E.coli-derived rat Heme Oxygenase 1/Hmox1 recombinant protein (Position: E2-T261).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml/ml, Rat ELISA, 0.1-0.5 ug/ml/ml, Rat

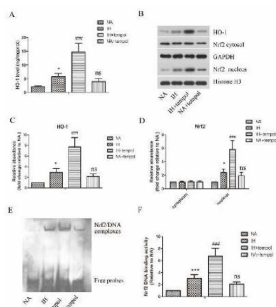
Anti-Heme Oxygenase 1/Hmox1 Antibody Picoband® (A00253-1) Images



Western blot analysis of Heme Oxygenase 1/Hmox1 using anti-Heme Oxygenase 1/Hmox1 antibody (A00253-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: rat liver tissue lysates, Lane 2: rat RH35 whole cell lysates, Lane 3: rat PC-12 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-Heme Oxygenase 1/Hmox1 antigen affinity purified polyclonal antibody (Catalog # A00253-1) at 0.5 ug/mL 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 Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Heme Oxygenase 1/Hmox1 at approximately 33 kDa. The expected band size for Heme Oxygenase 1/Hmox1 is at 33 kDa.



Effects of CSSPW on the expression of Nrf2/HO-1 pathway in LPS-induced RAW264.7 cells. Cells were incubated with CSSPW (15 ng/mL, 1.5 ug/mL and 150 ug/mL), Dex (0.13 mg/mL) and LPS (1 ug/mL) for 24 h. a and c Western blotting results of Nrf2 and HO-1 proteins. Graphs represented relative expression of Nrf2 (b) and HO-1 (d). Data were represented as mean \pm SD (n = 3); ** p



Tempol further promoted intermittent hypoxia-induced activation of the Nrf2/HO-1 signaling pathway. (A) The level of HO-1 in lung tissues was detected by a commercial kit. (B) The protein levels of HO-1, cytoplasmic Nrf2, and nuclear Nrf2 in lung tissues were measured by Western blot assay. GAPDH was used as a loading control. (C)& (D) The gray-scale value of the bands was quantitatively analyzed. (E) DNA binding activity of Nrf2 in lung tissues was determined by EMSA. (F) Quantitative analysis of Nrf2 DNA binding activity. The experimental data were expressed as mean \pm SD (n=6). * P< 0.05, *** P< 0.001, versus the NA group. ### P< 0.001, versus the IH group. ns, no significance, versus the NA group. Index in PubMed under a CC BY license. PMID: 30627367

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