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antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Heme oxygenase 2/HMOX2 Antibody Picoband™

Catalog Number: PB9213

About HMOX2

Heme oxygenase 2 (HMOX2), also known as HO-2, is an enzyme that in humans is encoded by the HMOX2 gene. It is mapped to 16p13.3. HMOX2 belongs to the heme oxygenase family. Heme oxygenase cleaves the heme ring at the alpha methene bridge to form biliverdin. Biliverdin is subsequently converted to bilirubin by biliverdin reductase. Under physiological conditions, the activity of heme oxygenase is highest in the spleen, where senescent erythrocytes are sequestrated and destroyed. Heme oxygenase 2 could be implicated in the production of carbon monoxide in brain where it could act as a neurotransmitter.

Overview

Product Name	Anti-Heme oxygenase 2/HMOX2 Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-Heme oxygenase 2/HMOX2 Antibody Picoband™ catalog # PB9213. Tested in IHC, WB applications. This antibody reacts with Human.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Storage Instructions	Store 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 freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P30519

Technical Details

Immunogen	E.coli-derived human HMOX2 recombinant protein (Position: S2-M316). Human HMOX2 shares 89% and 90% amino acid (aa) sequences identity with mouse and rat HMOX2, respectively.
Predicted Reactive Species	Bovine, Horse, Monkey, Rabbit
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
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.

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Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, By Heat Western blot, 0.1-0.5ug/ml, Human

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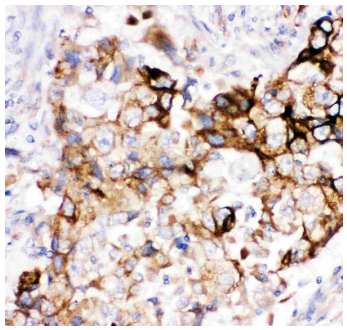
Anti-Heme oxygenase 2/HMOX2 Antibody Picoband™ (PB9213) Images



Anti-HMOX2 antibody, PB9213, IHC(P)
IHC(P): Human Lung Cancer Tissue

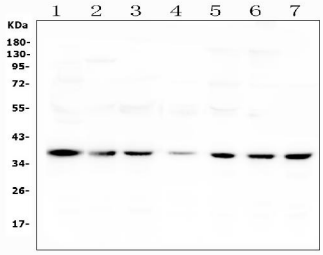


Figure 1. Western blot analysis of HMOX2 using anti-HMOX2 antibody (PB9213).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: human A549 whole cell lysates,
Lane 2: human Caco-2 whole cell lysates,
Lane 3: human HEK293 whole cell lysates,
Lane 4: human Jurkat whole cell lysates,
Lane 5: human HepG2 whole cell lysates,
Lane 6: human K562 whole cell lysates,
Lane 7: human Raji whole cell lysates,
After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-HMOX2 antigen affinity purified polyclonal antibody (Catalog # PB9213) 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 1:10000 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 HMOX2 at approximately 38KD. The expected band size for HMOX2 is at 36KD.

1 Publications Citing This Product

1. PubMed ID: 10.1038/s41598-019-43347-8, TLR4 counteracts BVRA signaling in human leukocytes via differential regulation of AMPK, mTORC1 and mTORC2

Visit bosterbio.com/anti-hmox2-picoband-trade-antibody-pb9213-boster.html to see all 1 publications.

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