BOSTER
antibody and ELISA experts

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Anti-Epoxide hydrolase/EPHX1 Antibody Picoband™

Catalog Number: A00899-1

About EPHX1

Epoxide hydrolase 1 is an enzyme encoded by the EPHX1 gene in humans. Epoxide hydrolase is a critical biotransformation enzyme that converts epoxides from the degradation of aromatic compounds to trans-dihydrodiols which can be conjugated and excreted from the body. Epoxide hydrolase functions in both the activation and detoxification of epoxides. Mutations in this gene cause preeclampsia, epoxide hydrolase deficiency or increased epoxide hydrolase activity. Alternatively spliced transcript variants encoding the same protein have been found for this gene.

Overview

Product Name	Anti-Epoxide hydrolase/EPHX1 Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Epoxide hydrolase/EPHX1 Antibody Picoband™ catalog # A00899-1. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
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	P07099

Technical Details

Immunogen	E.coli-derived human Epoxide hydrolase/EPHX1 recombinant protein (Position: A42-Q455).
Predicted Reactive Species	Human
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 µg/ml.
Purification	Immunogen affinity purified.

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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: Western blot, 0.25-0.5 μg/ml, Human, Mouse, Rat Flow Cytometry, 1-3 ug/1x10^6 cells, Human Direct ELISA, 0.1-0.5 μg/ml, Human

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Anti-Epoxide hydrolase/EPHX1 Antibody Picoband™ (A00899-1) Images

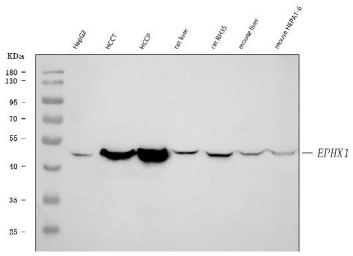

Figure 1. Western blot analysis of Epoxide hydrolase/EPHX1 using anti-Epoxide hydrolase/EPHX1 antibody (A00899-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human HepG2 whole cell lysates,
Lane 2: human HCCT tissue lysates,
Lane 3: human HCCP tissue lysates,
Lane 4: rat liver tissue lysates,
Lane 5: rat RH35 whole cell lysates,
Lane 6: mouse liver tissue lysates,
Lane 7: mouse HEPA1-6 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-Epoxide hydrolase/EPHX1 antigen affinity purified polyclonal antibody (Catalog # A00899-1) 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 Epoxide hydrolase/EPHX1 at approximately 53 kDa. The expected band size for Epoxide hydrolase/EPHX1 is at 53 kDa.

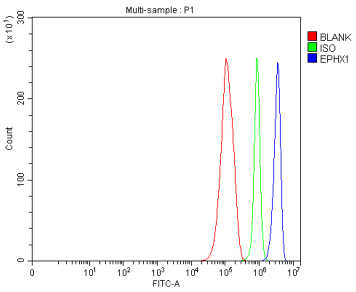

Figure 2. Flow Cytometry analysis of RT4 cells using anti-Epoxide hydrolase/EPHX1 antibody (A00899-1).
Overlay histogram showing RT4 cells stained with A00899-1 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Epoxide hydrolase/EPHX1 Antibody (A00899-1, 1 ug/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

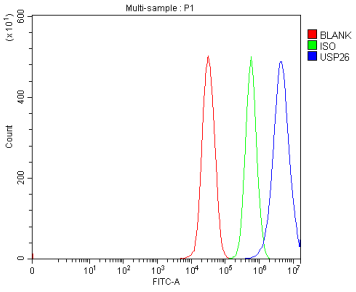

Figure 3. Flow Cytometry analysis of 293T cells using anti-Epoxide hydrolase/EPHX1 antibody (A00899-1).
Overlay histogram showing 293T cells stained with A00899-1 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Epoxide hydrolase/EPHX1 Antibody (A00899-1, 1 ug/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was

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also used as a control.

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