

Rabbit Epoxide hydrolase/EPHX1 Polyclonal Antibody | anti-EPHX1 antibody

Anti-Epoxide hydrolase/EPHX1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126092	Rabbit	Human, Mouse, Rat	Western Blot, Flow Cytometry, Functional Assay, ELISA

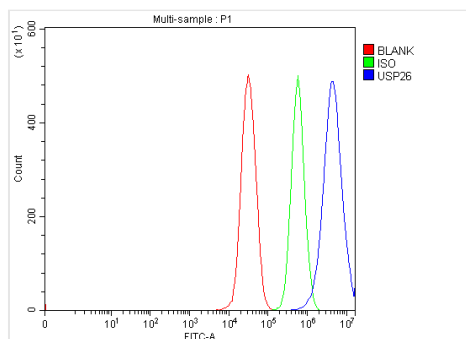
PRODUCT SYNONYMS

Epoxide hydrolase/EPHX1; Polyclonal Antibody; Anti-Epoxide hydrolase/EPHX1 Antibody Picoband; anti-EPHX1 antibody

PRODUCT SPECIFICATIONS

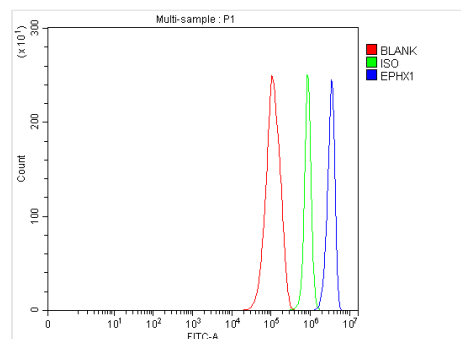
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-EPHX1 antibody	WB (Western Blot), FCM/FACS (Flow Cytometry), ELISA
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human Epoxide hydrolase/EPHX1 recombinant protein (Position: A42-Q455).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.

IMAGES



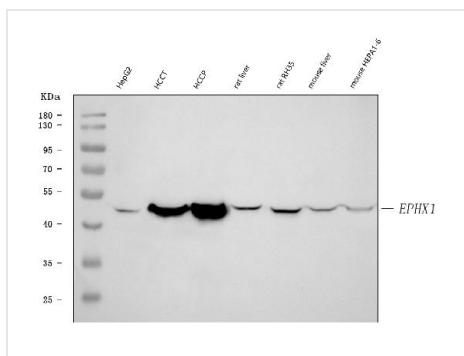
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of 293T cells using anti-Epoxide hydrolase/EPHX1 antibody (AAA126092). Overlay histogram showing 293T cells stained with AAA126092 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Epoxide hydrolase/EPHX1 Antibody (AAA126092, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of RT4 cells using anti-Epoxide hydrolase/EPHX1 antibody (AAA126092). Overlay histogram showing RT4 cells stained with AAA126092 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Epoxide hydrolase/EPHX1 Antibody (AAA126092, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of Epoxide hydrolase/EPHX1 using anti-Epoxide hydrolase/EPHX1 antibody (AAA126092). 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 (#AAA126092) at 0.5 ug/mL overnight at 4 degree 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 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.

ADDITIONAL INFORMATION

Related Product Information for anti-EPHX1 antibody	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.
Product Categories/Family for anti-EPHX1 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503583
NCBI GeneID	2052
NCBI Accession #	NP_000111.1
NCBI GenBank Nucleotide #	NM_000120.3
UniProt Accession #	P07099 ; Q5VTJ6 ; Q9NP75 ; Q9NPE7 ; Q9NQU6 ; Q9NQU7 ; Q9NQU8 ; Q9NQU9 ; Q9NQV0 ; Q9NQV1 ; Q9NQV2
Molecular Weight	455
NCBI Official Full Name	epoxide hydrolase 1
NCBI Official Synonym Full Names	epoxide hydrolase 1, microsomal (xenobiotic)
NCBI Official Symbol	EPHX1
NCBI Official Synonym Symbols	MEH; EPHX; EPOX; HYL1
NCBI Protein Information	epoxide hydrolase 1; epoxide hydratase
UniProt Protein Name	Epoxide hydrolase 1

UniProt Gene Name	EPHX1
UniProt Synonym Gene Names	EPHX; EPOX
UniProt Entry Name	HYEP_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/epoxide-hydrolase-ephx1-antibody-western-blot-flow-cytometry-elisa/126092>