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Anti-EPHX2 Picoband Antibody

Catalog # ABO10225

Product Information

Application	WB
Primary Accession	P34913
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Bifunctional epoxide hydrolase 2(EPHX2) detection. Tested with WB in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	2053
Other Names	Bifunctional epoxide hydrolase 2, Cytosolic epoxide hydrolase 2, CEH, 3.3.2.10, Epoxide hydratase, Soluble epoxide hydrolase, SEH, Lipid-phosphate phosphatase, 3.1.3.76, EPHX2
Calculated MW	62616
Application Details	Western blot, 0.1-0.5 □g/ml, Human, Mouse, Rat
Subcellular Localization	Cytoplasm. Peroxisome.
Source	Eukaryota
Protein Name	Bifunctional epoxide hydrolase 2
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human EPHX2 (505-543aa QHMEDWIPHLKRGHIEDCGHWTQMDKPTEVNQILIKWLD), different from the related mouse sequence by seven amino acids, and from the related rat sequence by eight amino acids.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins.
Storage	At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.

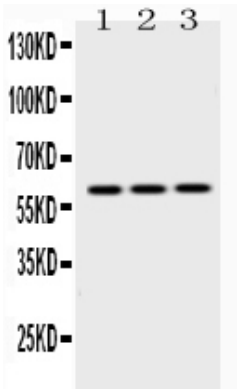
Protein Information

Name	EPHX2 (HGNC:3402)
Function	Bifunctional enzyme (PubMed: 12574510). The C-terminal domain has epoxide hydrolase activity and acts on epoxides (alkene oxides, oxiranes) and arene oxides (PubMed:12574510, PubMed:12869654, PubMed:22798687). Plays a role in xenobiotic metabolism by degrading potentially toxic epoxides (By similarity). Also determines steady- state levels of physiological mediators (PubMed:12574510, PubMed:12869654, PubMed:21217101, PubMed:22798687).
Cellular Location	Cytoplasm. Peroxisome.

Background

Soluble epoxide hydrolase (sEH) is a bifunctional enzyme that in humans is encoded by the EPHX2 gene. It is mapped to 8p21.2-p21.1. This gene encodes a member of the epoxide hydrolase family. The protein, found in both the cytosol and peroxisomes, binds to specific epoxides and converts them to the corresponding dihydrodiols. Mutations in this gene have been associated with familial hypercholesterolemia. Alternatively spliced transcript variants have been described.

Images



Western blot analysis of EPHX2 expression in rat lung extract (lane 1), mouse lung extract (lane 2) and HEPG2 whole cell lysates (lane 3). EPHX2 at 62KD was detected using rabbit anti- EPHX2 Antigen Affinity purified polyclonal antibody (Catalog # ABO10225) at 0.5 □¼g/mL. The blot was developed using chemiluminescence (ECL) method .