EPHX2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	EPHX2, Polyclonal Antibody
Full Product Name	EPHX2 Antibody, Biotin conjugated
Product Gene Name	anti-EPHX2 antibody
Product Synonym Names	Bifunctional epoxide hydrolase 2; Epoxide hydratase; Soluble epoxide hydrolase; SEH; Lipid-phosphate phosphatase; EPHX2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Purity/Purification	Caprylic Acid Ammonium Sulfate Precipitation Purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: EPHX2 (MBS7000211) Biotin Conjugated Antibody: EPHX2 (MBS1496140)
Molecular Weight	55,626 Da
OMIM	132811
3D Structure	ModBase 3D Structure for P34913
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Conjugate	Biotin
Immunogen	Recombinant Human Bifunctional epoxide hydrolase 2 (1-555aa)
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-25797 / sc-87099 / sc-87101
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-EPHX2 antibody	ELISA (EIA)
Related Product Information for anti-EPHX2 antibody	Bifunctional enzyme. The C-terminal domain has epoxide hydrolase activity and acts on epoxides (alkene oxides, oxiranes) and arene oxides. Plays a role in xenobiotic metabolism by degrading potentially toxic epoxides. Also determines steady-state levels of physiological mediators. The N-terminal domain has lipid phosphatase activity, with the highest activity towards threo-9,10-phosphonooxy-hydroxy-octadecanoic acid, followed by erythro-9,10-phosphonooxy-hydroxy-octadecanoic acid, 12-phosphonooxy-octadec-9Z-enoic acid, 12-phosphonooxy-octadec-9E-enoic acid, and p-nitrophenyl phospate.
Other Notes	Small volumes of anti-EPHX2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for EPHX2 purchase	MBS1496140 is an antibody targeting EPHX2. Also known as EPHX2 Antibody, Biotin conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EPHX2. It may not necessarily be applicable to this product.

NCBI GI #	374532800
NCBI GeneID	2053
NCBI Accession #	NP_001243411.1
UniProt Primary Accession #	P34913
UniProt Secondary Accession #	Q16764; Q9HBJ1; Q9HBJ2; B2Z3B1; B3KTU8; B3KUA0; G3V134; J3KPH7
UniProt Related Accession #	P34913
GenBank Nucleotide #	NM_001256482.1
NCBI Official Full Name	bifunctional epoxide hydrolase 2 isoform b
NCBI Official Synonym Full Names	epoxide hydrolase 2
NCBI Official Symbol	EPHX2
NCBI Official Synonym Symbols	CEH; SEH
UniProt Protein Name	Bifunctional epoxide hydrolase 2
UniProt Synonym Protein Names	Cytosolic epoxide hydrolase 2 (EC:3.3.2.10); CEHAlternative name(s):Epoxide hydratase; Soluble epoxide hydrolase; SEH
Protein Family	Bifunctional epoxide hydrolase
UniProt Gene Name	EPHX2
UniProt Synonym Gene Names	CEH; SEH
UniProt Entry Name	HYES_HUMAN
NCBI Protein Information	bifunctional epoxide hydrolase 2
NCBI Summary for EPHX2	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. [provided by RefSeq, Feb 2012]
UniProt Comments for EPHX2	EPHX2: Bifunctional enzyme. The C-terminal domain has epoxide hydrolase activity and acts on epoxides (alkene oxides, oxiranes) and arene oxides. Plays a role in xenobiotic metabolism by degrading potentially toxic epoxides. Also determines steady-state levels of physiological mediators. The N-terminal domain has lipid phosphatase activity, with the highest activity towards threo- 9,10-phosphonooxy-hydroxy-octadecanoic acid, followed by erythro-9,10-phosphonooxy-hydroxy-octadecanoic acid, 12-phosphonooxy- octadec-9Z-enoic acid, 12-phosphonooxy-octadec-9E-enoic acid, and p-nitrophenyl phospate. Belongs to the AB hydrolase superfamily. Epoxide hydrolase family. Protein type: EC 3.1.3.76; Lipid Metabolism - arachidonic acid; Hydrolase; EC 3.3.2.10 Chromosomal Location of Human Ortholog: 8p21 Cellular Component: cytoplasm; cytosol; peroxisome Molecular Function: epoxide hydrolase activity; lipid phosphatase activity; lipid-phosphate phosphatase activity; magnesium ion binding; phosphoric monoester hydrolase activity; protein homodimerization activity; receptor binding; toxin binding Biological Process: arachidonic acid metabolic process; cellular calcium ion homeostasis; cholesterol homeostasis; dephosphorylation; drug metabolic process; epoxygenase P450 pathway; inflammatory response; phospholipid dephosphorylation; positive regulation of vasodilation; regulation of blood pressure; response to toxin; stilbene catabolic process; xenobiotic metabolic process Disease: Hypercholesterolemia, Familial

Research Articles on EPHX2	**1.** Within the EPHX2 promoter -56/+32, five Sp1-binding sites were identified, and the mutation of each of these sites showed that the first one (SP1_1) was important in both suppression by Sp1 and activation by AP2alpha.
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