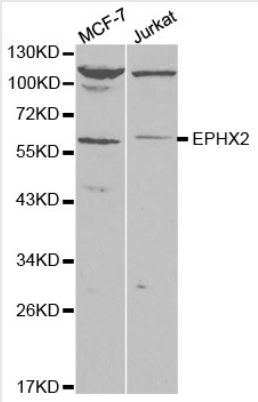
EPXH2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	EPXH2, Polyclonal Antibody
Full Product Name	EPXH2 Antibody
Product Gene Name	anti-EPXH2 antibody
Product Synonym Names	CEH; SHE; EpoxideHydratase
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Antibodies were purified by affinity purification using immunogen.
Concentration	1.0 mg/ml (lot specific)
Specificity	The antibody detects endogenous level of total EPXH2 protein.
Preparation and Storage	Store at -20 degree C
Molecular Weight	55,626 Da
OMIM	132811
3D Structure	ModBase 3D Structure for P34913
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human EPXH2.
Target Name	EPXH2
Product Categories/Family for anti-EPXH2 antibody	Total protein Ab
Applications Tested/Suitable for anti-EPXH2 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-EPXH2 antibody	Western blotting: 1:500 - 1:1000 Immunohistochemistry: 1:50 - 1:100
Related Product Information for anti-EPXH2 antibody	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.
Other Notes	Small volumes of anti-EPXH2 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 EPXH2 purchase	MBS9409585 is an antibody targeting EPXH2. Also known as EPXH2 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-EPXH2 antibody
Western blot analysis of extracts of various cell lines, using EPXH2 antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EPXH2. 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, cytoplasmic
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
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 EPXH2	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 EPXH2	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: Lipid Metabolism - arachidonic acid; EC 3.3.2.10; EC 3.1.3.76; Hydrolase Chromosomal Location of Human Ortholog: 8p21 Cellular Component: cytoplasm; peroxisome; cytosol Molecular Function: toxin binding; protein homodimerization activity; lipid-phosphate phosphatase activity; epoxide hydrolase activity; phosphoric monoester hydrolase activity; magnesium ion binding; lipid phosphatase activity; receptor binding Biological Process: cellular calcium ion homeostasis; cholesterol homeostasis; dephosphorylation; xenobiotic metabolic process; response to toxin; regulation of blood pressure; arachidonic acid metabolic process; epoxygenase P450 pathway; stilbene catabolic process; inflammatory response; positive regulation of vasodilation; drug metabolic process; phospholipid dephosphorylation Disease: Hypercholesterolemia, Familial
Research Articles on EPXH2	**1.** A genetic variant that results in decreased soluble epoxide hydrolase activity is associated with increased insulin sensitivity.
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