
Product Name: KD-Validated Epoxide Hydrolase 1 Mouse Monoclonal Antibody**Catalog #: KVA00563**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB, ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG2a
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2,500; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 52.9kDa

Antigen Information

Gene Name	EPHX1 EPHX1; Epoxide Hydrolase 1; EPHX; Epoxide Hydrolase 1, Microsomal (Xenobiotic); Epoxide
Alternative Names	Hydratase; EPOX; MEH; Epoxide Hydrolase 1 Microsomal; Microsomal Epoxide Hydrolase; EC 3.3.2.9; HYL1
Gene ID	2052.0
SwissProt ID	P07099
Immunogen	Recombinant protein of human EPHX1

Background

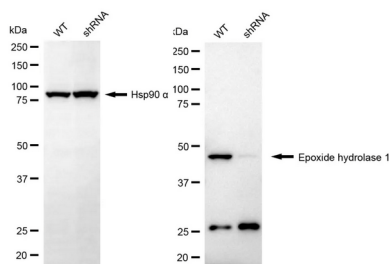
Epoxide hydrolase is a critical biotransformation enzyme that converts epoxides from the degradation of aromatic compounds to trans-dihydrodiols which can be conjugated and excreted from the body. Epoxide hydrolase functions in both the activation

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.[provided by RefSeq, Dec 2008]

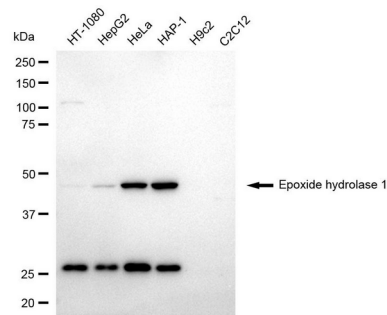
Research Area

Cell Biology, Metabolism

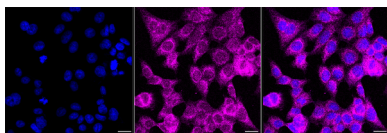
Image Data



Western blotting analysis using epoxide hydrolase 1 antibody (KVA00563). Epoxide hydrolase 1 expression in wild-type (WT) and epoxide hydrolase 1 (EPHX1) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with epoxide hydrolase 1 antibody (KVA00563, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using epoxide hydrolase 1 antibody (KVA00563). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with epoxide hydrolase 1 antibody (KVA00563, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of HAP-1 cells with Epoxide hydrolase 1 antibody (KVA00563, 1:500). Nuclei were stained blue with DAPI; Epoxide hydrolase 1 stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar, 20 µm.