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SEH / EPHX2 Antibody (Internal)

Rabbit Polyclonal Antibody
Catalog # ALS11045

Specification

SEH / EPHX2 Antibody (Internal) - Product Information

Application	**IHC**
Primary Accession	P34913
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**63kDa KDa**

SEH / EPHX2 Antibody (Internal) - 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

Target/Specificity
Human EPHX2. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except RHOBTB2 (44%), RHOBTB1 (44%).

Reconstitution & Storage
Long term: -70°C; Short term: +4°C

Precautions
SEH / EPHX2 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

SEH / EPHX2 Antibody (Internal) - 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:12869654, PubMed:12574510, PubMed:22798687). Plays a role in xenobiotic metabolism by degrading potentially toxic epoxides (By similarity). Also determines steady- state levels of physiological mediators (PubMed:12869654, PubMed:12574510, PubMed:22798687, PubMed:<a

href="http://www.uniprot.org/citations/21217101" target="_blank">21217101).

Cellular Location
Cytoplasm. Peroxisome.

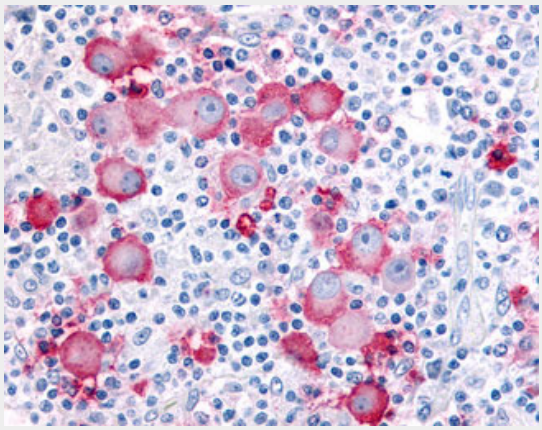
Volume
50 µl

SEH / EPHX2 Antibody (Internal) - Protocols

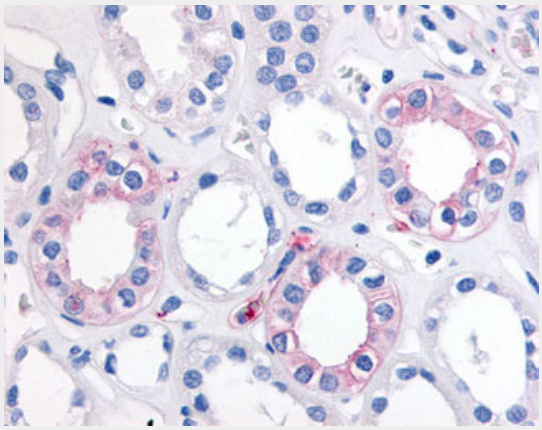
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SEH / EPHX2 Antibody (Internal) - Images



Anti-SEH / EPHX2 antibody IHC of human Skin, Melanoma.



Anti-EPHX2 antibody ALS11045 IHC of human kidney.

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SEH / EPHX2 Antibody (Internal) - Background

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.

SEH / EPHX2 Antibody (Internal) - References

Beetham J.K.,et al.Arch. Biochem. Biophys. 305:197-201(1993).
Sandberg M.,et al.Biochem. Biophys. Res. Commun. 221:333-339(1996).
Sandberg M.,et al.J. Biol. Chem. 275:28873-28881(2000).
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Ota T.,et al.Nat. Genet. 36:40-45(2004).