

Rabbit Anti-EPHX3/ABHD9 Polyclonal: RC0024-0.1ML

Intended Use: For Research Use Only

Description: EPHX3 (Epoxide Hydrolase 3) is a human protein-coding gene located on chromosome 19p13.12 that encodes the epoxide hydrolase 3 enzyme. This enzyme belongs to the structural family of α/β hydrolase fold enzymes and plays a specialized role in epidermal lipid metabolism and maintaining the skin's moisture barrier. EPHX3 is an emerging prognostic and diagnostic biomarker primarily utilized in cancer research and the diagnosis of rare skin barrier disorders. It is an important DNA methylation marker of prostate cancer. It is required for the detoxification of reactive xenobiotic epoxides and for the modification of endogenous epoxides which are signaling molecules. EPHX3 shows high activity towards fatty acid-derived epoxides.

Specifications:

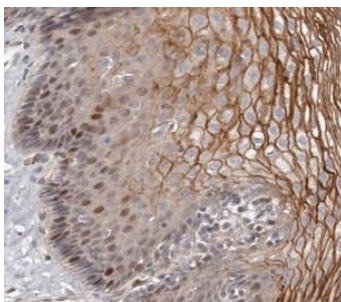
Clone:	Polyclonal
Source:	Rabbit
Isotype:	IgG
Reactivity:	Human
Immunogen:	Synthesized peptide derived from human EPHX3
Localization:	Membrane, cytoplasm, nucleus
Formulation:	Purified antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN ₃)
Storage:	Store at 2°- 8°C
Applications:	IHC, WB
Package:	

Description	Catalog No.	Size
EPHX3/ABHD9 Polyclonal Concentrated	RC0024-0.1ML	0.1 ml

IHC Procedure*:

Positive Control Tissue:	Esophagus, breast cancer
Concentrated Dilution:	25-200
Pretreatment:	Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
Incubation Time and Temp:	Overnight at 4°C
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human esophagus stained with anti-EPHX3 using DAB

References:

1. Epoxide hydrolase 3 (Ephx3) gene disruption reduces ceramide linoleate epoxide hydrolysis and impairs skin barrier function. Matthew L Edin, et al. J Biol Chem. Jan 21;296:100198, 2021. doi: 10.1074/jbc.RA120.016570.
2. Epoxide hydrolase 3 (Ephx3) gene disruption reduces ceramide linoleate epoxide hydrolysis and impairs skin barrier function. M. Edin, et al. Journal of Biological. 17 December 2020.
3. Generation and characterization of epoxide hydrolase 3 (EPHX3)-deficient mice. Samantha L. et al. Plos One. April 6, 2017. <https://doi.org/10.1371/journal.pone.0175348>.

Doc. 100-RC0024
Rev. A