

For Research Use Only

EPHX2 Polyclonal antibody

Catalog Number:10833-1-AP

Featured Product

17 Publications



Basic Information

Catalog Number:

10833-1-AP

Size:

150ul , Concentration: 500 ug/ml by Nanodrop and 453 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1283

GenBank Accession Number:

BC013874

GeneID (NCBI):

2053

UNIPROT ID:

P34913

Full Name:

epoxide hydrolase 2, cytoplasmic

Calculated MW:

63 kDa

Observed MW:

63 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, chicken

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HEK-293 cells, mouse colon tissue, rat cerebellum tissue, HEK-293T cells, A549 cells

IP : mouse large intestine tissue, HEK-293 cells

IHC : human colon cancer tissue, mouse brain tissue, mouse kidney tissue, rat kidney tissue

IF/ICC : HEK-293 cells,

Background Information

EPHX2(Epoxide hydrolase 2) acts on epoxides (alkene oxides, oxiranes) and arene oxides and plays a role in xenobiotic metabolism by degrading potentially toxic epoxides. A number of single nucleotide polymorphisms (SNPs) in human EPHX2 have been linked to cardiovascular disease risk, including increased risk of coronary heart disease, hyperlipoproteinemia, and type-2 diabetes (PMID: 14732757, 16595607, 14673705, 15845398, 17460077). It was observed in many tissues with the band of 63 kDa in the western blot. It has also been reported that the N-terminal domain might promote dimerization of EPHX2 (PMID:21553642).

Notable Publications

Author	Pubmed ID	Journal	Application
Yiran Zhou	35433439	Front Oncol	WB,IHC
Xiaoming Zhu	35344709	Biochem Biophys Res Commun	WB
Shan Lu	35236335	BMC Complement Med Ther	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

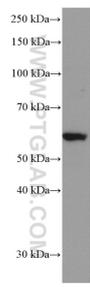
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

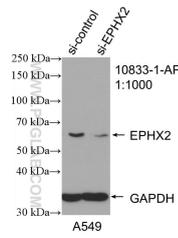
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

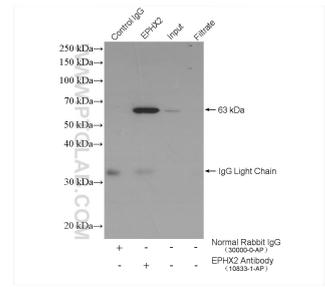
Selected Validation Data



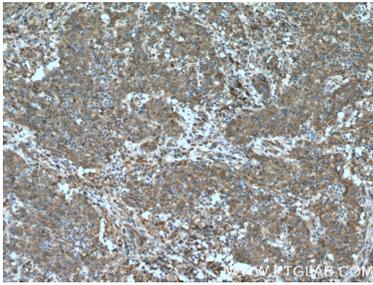
HEK-293 cells were subjected to SDS PAGE followed by western blot with 10833-1-AP (EPHX2 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



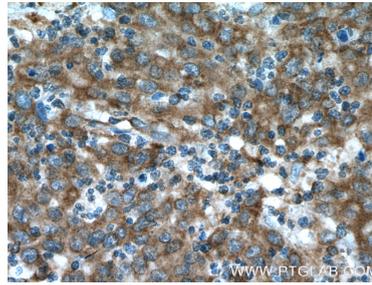
WB result of EPHX2 antibody (10833-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-EPHX2 transfected A549 cells.



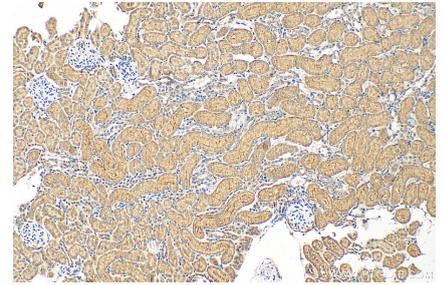
IP result of anti-EPHX2 (IP:10833-1-AP, 4ug; Detection:10833-1-AP 1:300) with mouse large intestine tissue lysate 3200 ug.



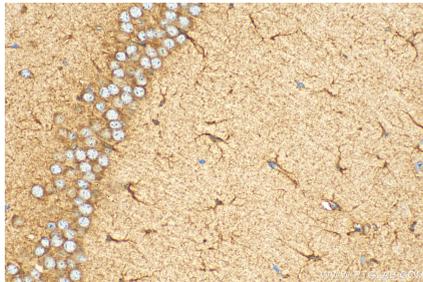
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 10833-1-AP (EPHX2 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



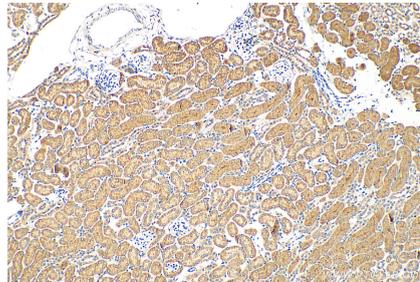
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 10833-1-AP (EPHX2 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



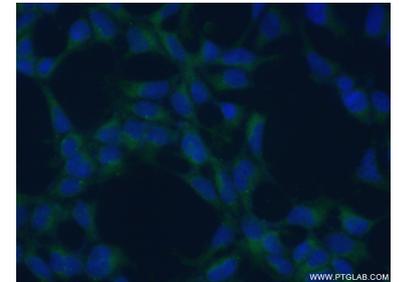
Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 10833-1-AP (EPHX2 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10833-1-AP (EPHX2 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 10833-1-AP (EPHX2 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using 10833-1-AP (EPHX2 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).