

For Research Use Only

FMO3 Polyclonal antibody

Catalog Number: 17469-1-AP

Featured Product

7 Publications



Basic Information

Catalog Number:

17469-1-AP

Size:

150ul, Concentration: 200 ug/ml by Nanodrop and 160 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG11405

GenBank Accession Number:

BC032016

GeneID (NCBI):

2328

UNIPROT ID:

P31513

Full Name:

flavin containing monooxygenase 3

Calculated MW:

532 aa, 60 kDa

Observed MW:

60 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:100-1:500

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse, rat

Cited Species:

mouse, rat

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 : mouse liver tissue, rat liver tissue

IHC : human liver cancer tissue,

Background Information

Microsomal flavin-containing monooxygenase (FMO) catalyzes the FAD-, NADPH-, and O₂-dependent oxidation of a large number of xenobiotics containing soft nucleophiles, including alkaloids, pesticides, and pharmaceutical substances. Based on the cDNA sequence, the FMOs are classified into five subfamilies (FMO1 to FMO5) (PMID:11792679). In human beings, FMO3 is predominant in the adult liver, but not appear sex-dependent in the adult human liver. In the mouse liver, its expression has been shown to be sex-dependent and expressed only in females (PMID:11996886). Defects in FMO3 are the cause of trimethylaminuria (TMAU). This antibody is specific to FMO3.

Notable Publications

Author	Pubmed ID	Journal	Application
Xiaoqiang Zhu	35739712	J Hazard Mater	WB
Zhichao Wang	35350612	Front Microbiol	WB
Yingchun Luo	35797768	EBioMedicine	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

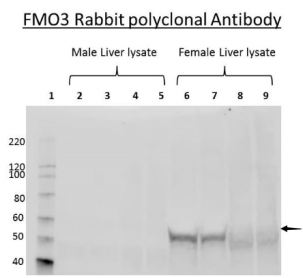
For technical support and original validation data for this product please contact:

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

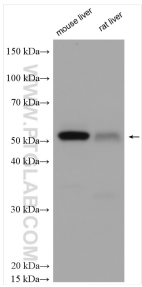
E: proteintech@ptglab.com
W: ptglab.com

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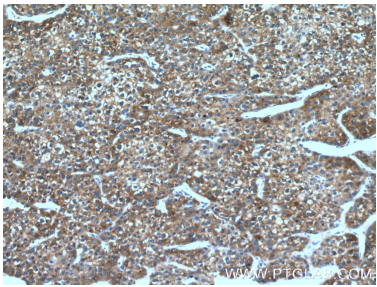
Selected Validation Data



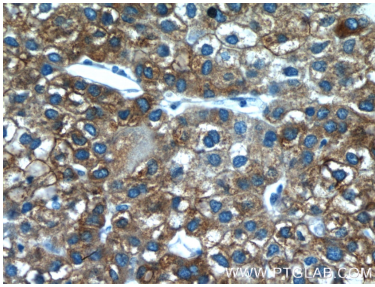
WB results of FMO3 antibody (17469-1-AP) with 8-week old CD1 male and female mice. (FMO3 is not expressed in male mice after 6-weeks of age and therefore are natural knockouts.)



Various lysates were subjected to SDS PAGE followed by western blot with 17469-1-AP (FMO3 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 17469-1-AP (FMO3 antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 17469-1-AP (FMO3 antibody) at dilution of 1:200 (under 40x lens).