

For Research Use Only

# FMO3 Polyclonal antibody

Catalog Number: 17469-1-AP

Featured Product

4 Publications



## Basic Information

<b>Catalog Number:</b> 17469-1-AP	<b>GenBank Accession Number:</b> BC032016	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 200 µg/ml by Nanodrop and 160 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 2328	<b>Recommended Dilutions:</b> WB 1:100-1:500 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> flavin containing monooxygenase 3	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 532 aa, 60 kDa	
<b>Immunogen Catalog Number:</b> AG11405	<b>Observed MW:</b> 60 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b> WB : mouse liver tissue, rat liver tissue
<b>Cited Applications:</b> WB	<b>IHC :</b> human liver cancer tissue,
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> rat, mouse	

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

## Background Information

Microsomal flavin-containing monooxygenase (FMO) catalyzes the FAD-, NADPH-, and O<sub>2</sub>-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 tissue. 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

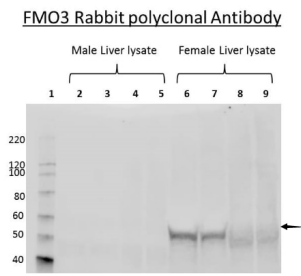
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

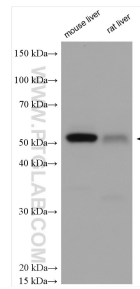
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

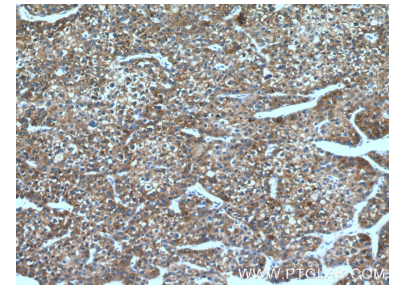
## Selected Validation Data



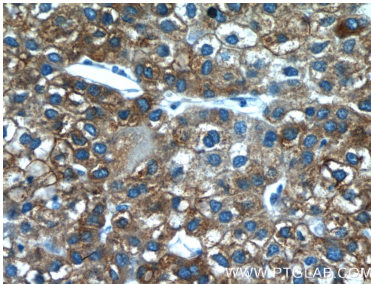
WB results of FMO3 antibody (17469-1-AP) with 8-week old CD1 male and female mice. (FMO3 is not expressed in male mice after 6-weeks of age and therefore are natural knockouts.)



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).