

For Research Use Only

# FMO5-specific Polyclonal antibody

Catalog Number: 16864-1-AP

Featured Product

2 Publications



## Basic Information

### Catalog Number:

16864-1-AP

### Size:

150ul, Concentration: 800 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_001461

### GeneID (NCBI):

2330

### UNIPROT ID:

P49326

### Full Name:

flavin containing monooxygenase 5

### Calculated MW:

60 kDa

### Observed MW:

60 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:500-1:1000

IHC: 1:200-1:800

IF/ICC: 1:50-1:500

FC (Intra): 0.40 ug per 10<sup>6</sup> cells in a 100 µl suspension

## Applications

### Tested Applications:

WB, IHC, IF/ICC, FC (Intra), ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

mouse

**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:** PC-3 cells, mouse liver tissue, DU 145 cells, LNCaP cells, VCaP cells, RAW 264.7 cells, MCF-7 cells, rat liver tissue

**IHC:** human liver tissue, mouse liver tissue, human breast cancer tissue

**IF/ICC:** MCF-7 cells,

**FC (Intra):** MCF-7 cells,

## Background Information

Microsomal flavin-containing monooxygenases (FMOs) [dimethylaniline monooxygenase (N-oxide forming) catalyze the FAD-, NADPH- and O<sub>2</sub>-dependent oxidation of a large number of structurally diverse compounds, including drugs, pesticides, and industrial chemicals containing a soft nucleophile (PMID:12488558). FMO5, which belongs to the FMO family, is a lesser component of human liver microsomes and is present at about one-third the level of FMO3. FMO5 protein is also present at very low levels in kidney, however, FMO5 exhibits a severely restricted substrate specificity for most drugs and other xenobiotics examined to date (PMID:10950857). It has 3 isoforms produced by alternative splicing.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yi-Xi Li	36335368	J Transl Med	IF
Flora Scott	28646079	Drug Metab Dispos	WB, IHC

## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

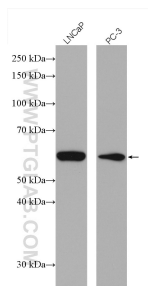
For technical support and original validation data for this product please contact:

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

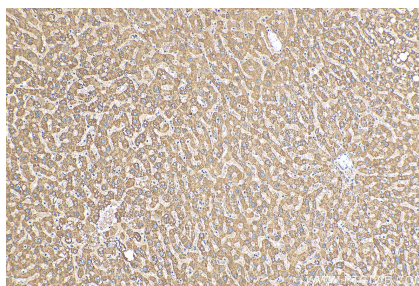
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

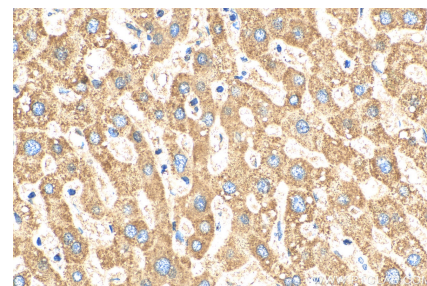
## Selected Validation Data



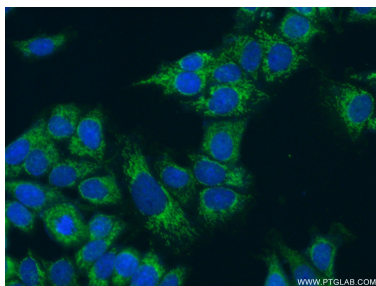
PC-3 cells and LNCap cells were subjected to SDS PAGE followed by western blot with 16864-1-AP (FMO5-specific antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



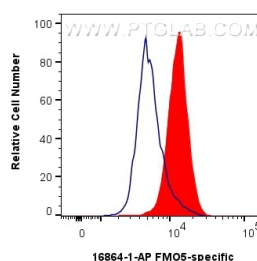
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 16864-1-AP (FMO5-specific antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 16864-1-AP (FMO5-specific antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed MCF-7 cells using 16864-1-AP (FMO5-specific antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).



$1 \times 10^6$  MCF-7 cells were intracellularly stained with 0.4 ug FMO5-specific Polyclonal antibody (16864-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-O-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).