For Research Use Only

FMO5 Polyclonal antibody

Catalog Number:13699-1-AP Featured Product 4 Publications

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Basic Information

Catalog Number:
13699-1-AP

Size:
150ul , Concentration: 350 ug/ml by Nanodrop and 200 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG4604

GenBank Accession Number:
BC035687

GeneID (NCBI):
2330

UNIPROT ID:
P49326

Full Name:
flavin containing monooxygenase 5

Calculated MW:
533 aa, 60 kDa

Observed MW:
60 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2400
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:100-1:400

Applications

Tested Applications:
WB, IP, IHC, ELISA

Cited Applications:
WB

Species Specificity:
human, mouse

Cited Species:
human, 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 : human liver tissue, mouse lung tissue

IP : mouse lung tissue,

IHC : human breast cancer tissue,

Background Information

Microsomal flavin-containing monooxygenases (FMOs) [dimethylaniline monooxygenase (N-oxide forming) catalyze the FAD-, NADPH- and O2-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 2 isoforms produced by alternative splicing.

Notable Publications

Author	Pubmed ID	Journal	Application
Min Chen	31515204	Drug Metab Dispos	WB
Sandra G Gonzalez Malagon	26049045	Biochem Pharmacol	WB
Shijiao Huang	33644069	Front Cell Dev Biol	WB

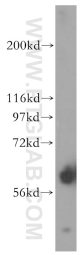
Storage

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

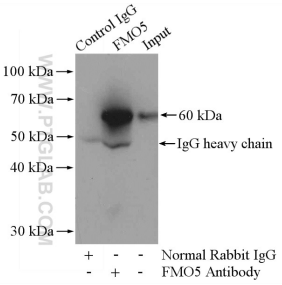
*** 20ul sizes contain 0.1% BSA

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

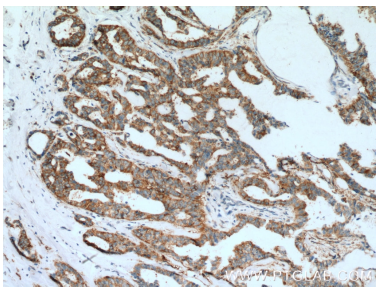
Selected Validation Data



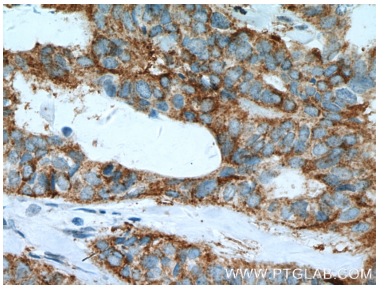
human liver tissue were subjected to SDS PAGE followed by western blot with 13699-1-AP (FMO5 antibody) at dilution of 1:1200 incubated at room temperature for 1.5 hours.



IP result of anti-FMO5 (IP:13699-1-AP, 4ug; Detection:13699-1-AP 1:500) with mouse lung tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 13699-1-AP (FMO5 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 breast cancer tissue slide using 13699-1-AP (FMO5 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).