For Research Use Only

FMO5 Polyclonal antibody

Catalog Number:13699-1-AP Featured Product 6 Publications

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Basic Information

Catalog Number:
13699-1-AP

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

Applications

Tested Applications:
WB, IP, ELISA

Cited Applications:
WB

Species Specificity:
human, mouse

Cited Species:
human, mouse

Positive Controls:

WB : human liver tissue, mouse lung tissue, HepG2 cells

IP : mouse lung 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

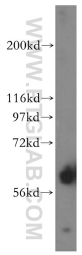
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

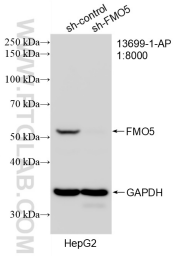
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

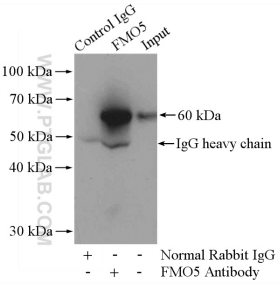
Selected Validation Data



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.



WB result of FMO5 antibody (13699-1-AP; 1:8000; incubated at room temperature for 1.5 hours) with sh-Control and sh-FMO5 transfected HepG2 cells.



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