10320 Camino Santa Fe, Suite G
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FMO5 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP55084

Specification

FMO5 Polyclonal Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	P49326
Reactivity	**Rat, Pig, Dog, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**60221**

FMO5 Polyclonal Antibody - Additional Information

Gene ID 2330

Other Names
Flavin-containing monooxygenase 5, FMO 5, Baeyer-Villiger monooxygenase 1, hBVMO1, 1.14.13.-, Dimethylaniline monooxygenase [N-oxide-forming] 5, 1.14.13.8, Dimethylaniline oxidase 5, NAPDH oxidase, 1.6.3.1, FMO5 (HGNC:3773)

Format
0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage
Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ℃.

FMO5 Polyclonal Antibody - Protein Information

Name FMO5 (HGNC:3773)

Function
Acts as a Baeyer-Villiger monooxygenase on a broad range of substrates. Catalyzes the insertion of an oxygen atom into a carbon- carbon bond adjacent to a carbonyl, which converts ketones to esters (PubMed:20947616, PubMed:26771671, PubMed:28783300). Active on diverse carbonyl compounds, whereas soft nucleophiles are mostly non- or poorly reactive (PubMed:26771671, PubMed:7872795). In contrast with other forms of FMO it is non- or poorly active on 'classical' substrates such as drugs, pesticides, and dietary components containing soft nucleophilic heteroatoms (Probable) (PubMed:7872795). Able to oxidize

drug molecules bearing a carbonyl group on an aliphatic chain, such as nabumetone and pentoxifylline (PubMed:28783300). Also, in the absence of substrates, shows slow but yet significant NADPH oxidase activity (PubMed:26771671). Acts as a positive modulator of cholesterol biosynthesis as well as glucose homeostasis, promoting metabolic aging via pleiotropic effects (By similarity).

Cellular Location
Microsome membrane. Endoplasmic reticulum membrane

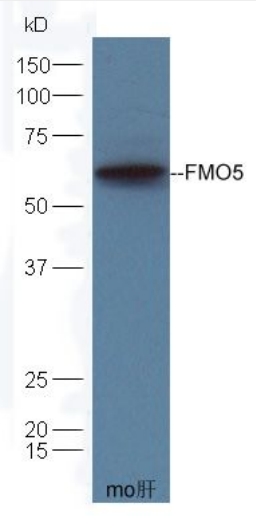
Tissue Location
Expressed in fetal and adult liver.

FMO5 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

FMO5 Polyclonal Antibody - Images



Protein: liver(mouse)lyates at 40ug;
Primary: Anti-FMO5 (bs-13187R) at 1:300;
Secondary: HRP conjugated Goat-Anti-Rabbit IgG(bse-0295G-HRP) at 1: 5000;
ECL excited the fluorescence;
Predicted band size : 60 kD
Observed band size :60 kD

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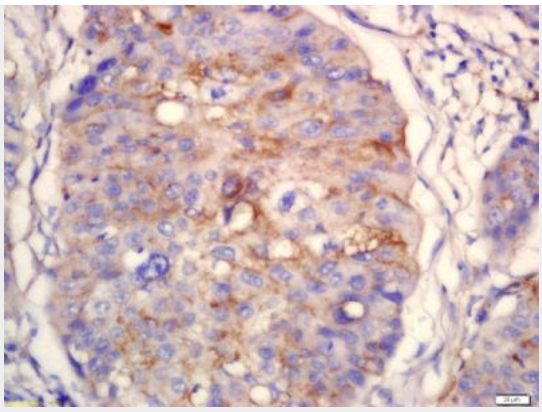

Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-FMO5 Polyclonal Antibody, Unconjugated(bs-13187R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining