

**FM05 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP55084**

**Specification**

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**FM05 Polyclonal Antibody - Product Information**

Application	<b>WB, IHC-P</b>
Primary Accession	<a href="#">P49326</a>
Reactivity	<b>Rat, Pig, Dog, Bovine</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>60221</b>

**FM05 Polyclonal Antibody - Additional Information**

**Gene ID** 2330

**Other Names**

Flavin-containing monooxygenase 5, FMO 5, Baeyer-Villiger monooxygenase 1, hBVM01, 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](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=3773))

**Format**

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

**Storage**

Store at -20 °C 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 °C.

**FM05 Polyclonal Antibody - Protein Information**

**Name** FM05 ([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](http://www.uniprot.org/citations/20947616), PubMed:[26771671](http://www.uniprot.org/citations/26771671), PubMed:[28783300](http://www.uniprot.org/citations/28783300)). Active on diverse carbonyl compounds, whereas soft nucleophiles are mostly non- or poorly reactive (PubMed:[26771671](http://www.uniprot.org/citations/26771671), PubMed:[7872795](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/7872795)). Able to oxidize

drug molecules bearing a carbonyl group on an aliphatic chain, such as nabumetone and pentoxifylline (PubMed:<a href="http://www.uniprot.org/citations/28783300" target="\_blank">28783300</a>). Also, in the absence of substrates, shows slow but yet significant NADPH oxidase activity (PubMed:<a href="http://www.uniprot.org/citations/26771671" target="\_blank">26771671</a>). 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

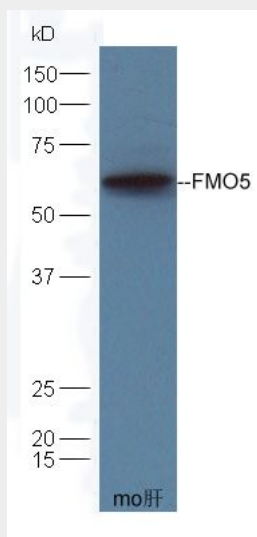
Expressed in fetal and adult liver.

### FMO5 Polyclonal Antibody - Protocols

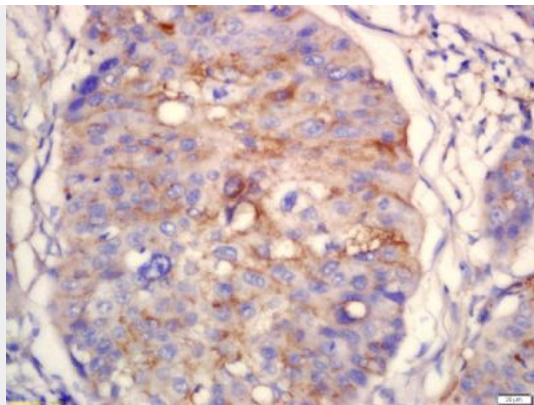
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [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



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°C 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