

DATASHEET

FMO3 Rabbit Polyclonal Antibody

CAT. NO. APA13446

KEY FEATURES

| | | | |
|---------------|---|---------------|---------------------|
| Target | FMO3 | Source / Host | Rabbit |
| Reactivity | Human, Mouse, Rat | Clonality | Polyclonal |
| Applications | WB, IF/ICC | Conjugation | Unconjugated |
| Form / Buffer | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. | | Storage at -20°C |

BACKGROUND

Essential hepatic enzyme that catalyzes the oxygenation of a wide variety of nitrogen- and sulfur-containing compounds including drugs as well as dietary compounds . Plays an important role in the metabolism of trimethylamine (TMA), via the production of trimethylamine N-oxide (TMAO) metabolite . TMA is generated by the action of gut microbiota using dietary precursors such as choline, choline containing compounds, betaine or L-carnitine. By regulating TMAO concentration, FMO3 directly impacts both platelet responsiveness and rate of thrombus formation .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

| | |
|--------|----------------|
| WB | 1:500 - 1:2000 |
| IF/ICC | 1:50 - 1:200 |

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

| | |
|-------------------|--|
| Description | Rabbit polyclonal antibody to FMO3 |
| Specificity | Recognizes endogenous levels of FMO3 protein. |
| Antibody Type | Primary antibody |
| Immunogen | Recombinant fusion protein of human FMO3 |
| Purification | The antibody was purified by immunogen affinity chromatography. |
| Molecular Weight | Predicted: 60 kD; Observed: 68 kD |
| Form/Buffer | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |
| Alternative Names | Dimethylaniline monooxygenase [N-oxide-forming] 3; Dimethylaniline oxidase 3; FMO II; FMO form 2; Hepatic flavin-containing monooxygenase 3; FMO 3; Trimethylamine monooxygenase |
| Gene Symbol | FMO3 |
| Entrez Gene | 2328(Human); 14262(Mouse); 84493(Rat) |
| SwissProt | P31513(Human); P97501(Mouse); Q9EQ76(Rat) |

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

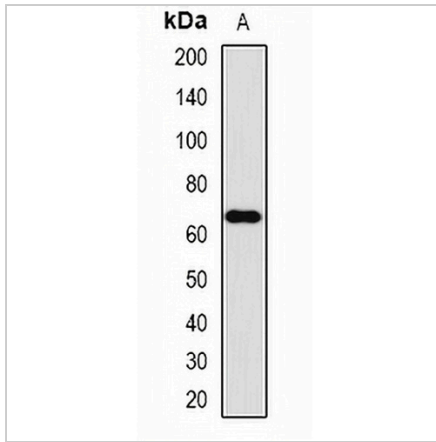
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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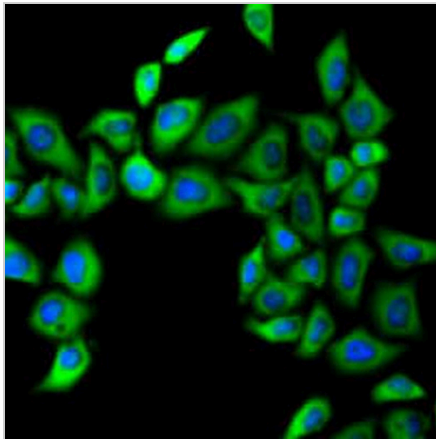
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DATA



Western blot analysis of FMO3 expression in mouse liver (A) whole cell lysates. (Predicted band size: 60 kD; Observed band size: 68 kD)



Immunofluorescent analysis of FMO3 staining in A549 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AREX® Fluor 488 -conjugated secondary antibody (green) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.