

FMO3 antibody - N-terminal region

Rabbit Polyclonal Antibody Catalog # AI12422

Product Information

Application WB, IHC Primary Accession P31513

Other Accession NM 001002294, NP 001002294

Reactivity Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine

Predicted Human, Mouse, Rat, Rabbit, Dog, Horse, Bovine

Host Rabbit
Clonality Polyclonal
Calculated MW 60033

Additional Information

Gene ID 2328

Alias Symbol FMOII, MGC34400, dJ127D3.1, TMAU

Other Names Dimethylaniline monooxygenase [N-oxide-forming] 3, 1.14.13.8,

Dimethylaniline oxidase 3, FMO II, FMO form 2, Hepatic flavin-containing monooxygenase 3, FMO 3, Trimethylamine monooxygenase, 1.14.13.148,

FMO3

Format Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium

azide and 2% sucrose.

Reconstitution & Storage Add 50 ul of distilled water. Final anti-FMO3 antibody concentration is 1

mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at

20°C. Avoid repeat freeze-thaw cycles.

Precautions FMO3 antibody - N-terminal region is for research use only and not for use in

diagnostic or therapeutic procedures.

Protein Information

Name FMO3

Function Essential hepatic enzyme that catalyzes the oxygenation of a wide variety of

nitrogen- and sulfur-containing compounds including drugs as well as dietary compounds (PubMed: 10759686, PubMed: 30381441, PubMed: 32156684). Plays an important role in the metabolism of trimethylamine (TMA), via the production of trimethylamine N-oxide (TMAO) metabolite (PubMed: 9776311). 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 (PubMed: 29981269).

Cellular Location Microsome membrane {ECO:0000250 | UniProtKB:P32417}; Single-pass

membrane protein. Endoplasmic reticulum membrane

{ECO:0000250|UniProtKB:P32417}; Single-pass membrane protein

Tissue Location Liver.

References

Zhang, J. (2006) Drug Metab. Dispos. 34(1), 19-26 Reconstitution and Storage: For short termuse, store at 2-8 Cupto 1 we ek. For long terms to rage, store at 2-20 Cinsmall aliquots to prevent freeze-thaw cycles.

Images



FMO3 antibody - N-terminal region

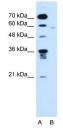
Formalin Fixed Paraffin Embedded Tissue: Human Liver Tissue Observed Staining: Cytoplasm in sinusoids of liver

Primary Antibody Concentration: 1:100

Secondary Antibody: Donkey anti-Rabbit-Cy3

Secondary Antibody Concentration: 1:200 Magnification: 20X

Exposure Time: 0.5 - 2.0 sec



WB Suggested Anti-FMO3 Antibody Titration: 0.2-1 µg/ml

Positive Control: Jurkat cell lysate

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.