

FMO3 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI12422**Specification****FMO3 antibody - N-terminal region - Product Information**

Application	WB, IHC
Primary Accession	P31513
Other Accession	NM_001002294 , NP_001002294
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog
Predicted	Human, Mouse, Rat, Rabbit, Horse, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	59kDa kDa

FMO3 antibody - N-terminal region - 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.

FMO3 antibody - N-terminal region - 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

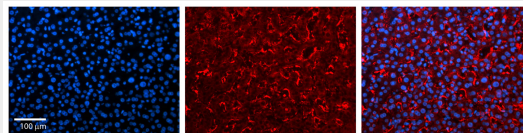
Liver.

FMO3 antibody - N-terminal region - 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](#)

FMO3 antibody - N-terminal region - 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

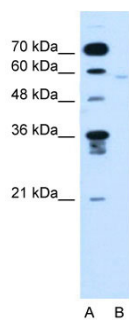
Secondary Antibody: Donkey anti-Rabbit-Cy3

Secondary Antibody

Concentration: 1:200

Magnification: 20X

Exposure Time: 0.5 - 2.0 sec



WB Suggested Anti-FMO3 Antibody Titration: 0.2-1 μ g/ml
Positive Control: Jurkat cell lysate

FMO3 antibody - N-terminal region - References

Zhang, J. (2006) Drug Metab. Dispos. 34(1), 19-26 Reconstitution and Storage: For short term use, store at 2-8 $^{\circ}$ C up to 1 week. For long term storage, store at -20 $^{\circ}$ C in small aliquots to prevent freeze-thaw cycles.