

Product Name: FMO3 (15Z9) Rabbit Monoclonal Antibody
Catalog #: AMRe11045

Summary

Production Name	FMO3 (15Z9) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
Purification	Affinity purification

Immunogen

Gene Name	FMO3
Alternative Names	FMO3; FMOII; TMAU;
Gene ID	2328.0
SwissProt ID	P31513.

Application

Dilution Ratio	WB 1:500-1:2000
Molecular Weight	60kDa

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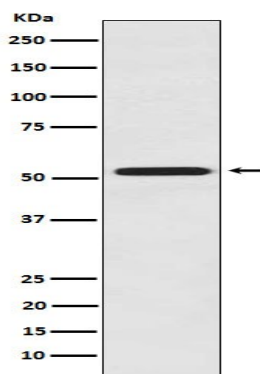


Background

Involved in the oxidative metabolism of a variety of xenobiotics such as drugs and pesticides. It N-oxygenates primary aliphatic alkylamines as well as secondary and tertiary amines. 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](http://www.uniprot.org/citations/10759686), PubMed:[30381441](http://www.uniprot.org/citations/30381441)). Plays an important role in the metabolism of trimethylamine (TMA), via the production of trimethylamine N-oxide (TMAO) metabolite (PubMed:[9776311](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/29981269)).

Research Area

Image Data



Western blot analysis of FMO3 expression in Mouse kidney lysate.

Note

For research use only.