

Rabbit FMO3 Polyclonal Antibody | anti-FMO3 antibody

FMO3 Antibody

CATALOG # AAA326448	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
-------------------------------	-----------------------	--	--

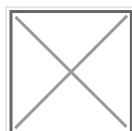
PRODUCT SYNONYMS

FMO3; Polyclonal Antibody; FMO3 Antibody; Dimethylaniline monooxygenase [N oxide forming] 3; Dimethylaniline monooxygenase [N-oxide-forming] 3; Dimethylaniline monooxygenase 3; Dimethylaniline oxidase 3; dJ127D3.1; Flavin containing monooxygenase 3; FMO 3; FMO form 2; FMO II; FMO3_HUMAN; FMOII; Hepatic flavin containing monooxygenase 3; Hepatic flavin-containing monooxygenase 3; MGC34400; TMAU; Trimethylamine monooxygenase; anti-FMO3 antibody

PRODUCT SPECIFICATIONS

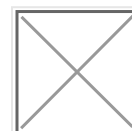
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	FMO3 antibody detects endogenous levels of total FMO3
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	532
Applicable Applications for anti-FMO3 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human FMO3
Subcellular Location	Microsome membrane. Endoplasmic Reticulum Membrane.
Tissue Specificity	Liver.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (100%), Horse (92%), Sheep (100%), Rabbit (100%), Dog (92%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)

AAA326448 at 1/100 staining Mouse liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of extracts of mouse liver, using FMO3 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-FMO3 antibody	Description: Flavin-containing monooxygenases (FMO) are an important class of drug-metabolizing enzymes that catalyze the NADPH-dependent oxygenation of various nitrogen-, sulfur-, and phosphorous-containing xenobiotics such as therapeutic drugs, dietary compounds, pesticides, and other foreign compounds. The human FMO gene family is composed of 5 genes and multiple pseudogenes. FMO members have distinct developmental-and tissue-specific expression patterns. The expression of this FMO3 gene, the major FMO expressed in adult liver, can vary up to 20-fold between individuals. This inter-individual variation in FMO3 expression levels is likely to have significant effects on the rate at which xenobiotics are metabolised and, therefore, is of considerable interest to the pharmaceutical industry. This transmembrane protein localizes to the endoplasmic reticulum of many tissues. Alternative splicing of this gene results in multiple transcript variants encoding the same protein. Mutations in this gene cause the disorder trimethylaminuria (TMAu) which is characterized by the accumulation and excretion of unmetabolized trimethylamine and a distinctive body odor. In healthy individuals, trimethylamine is primarily converted to the non odorous trimethylamine N-oxide. Function: 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. Plays an important role in the metabolism of trimethylamine (TMA), via the production of TMA N-oxide (TMAO). Is also able to perform S-oxidation when acting on sulfide compounds (PubMed:9224773). Similarity: Belongs to the FMO family.
--	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	50541961
NCBI GeneID	2328
NCBI Accession #	NP_001002294.1
NCBI GenBank Nucleotide #	NM_001002294.2
UniProt Accession #	P31513; Q14854; Q8N5N5; B2R816
Molecular Weight	Observed: 60 kDa Predicted: 61 kDa
NCBI Official Full Name	dimethylaniline monooxygenase
NCBI Official Synonym Full Names	flavin containing monooxygenase 3
NCBI Official Symbol	FMO3
NCBI Official Synonym Symbols	TMAU; FMOII; dJ127D3.1
NCBI Protein Information	dimethylaniline monooxygenase [N-oxide-forming] 3
UniProt Protein Name	Dimethylaniline monooxygenase [N-oxide-forming] 3
UniProt Gene Name	FMO3
UniProt Synonym Gene Names	FMO 3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.