FMO5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FMO5, Polyclonal Antibody
Full Product Name	FMO5, CT (FMO5, Dimethylaniline monooxygenase [N-oxide-forming] 5, Dimethylaniline oxidase 5, Hepatic flavin-containing monooxygenase 5) (MaxLight 490)
Product Gene Name	anti-FMO5 antibody
Product Synonym Names	FMO5; Dimethylaniline monooxygenase [N-oxide-forming] 5; Dimethylaniline oxidase 5; Hepatic flavin-containing monooxygenase 5
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	52,477 Da
OMIM	603957
3D Structure	ModBase 3D Structure for P49326
Immunogen	FMO5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 474-502 amino acids from the C-terminal region of human FMO5.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-FMO5 antibody	Antibodies; Enzymes; Oxidase
Applications Tested/Suitable for anti-FMO5 antibody	Western Blot (WB), FLISA
Application Notes for anti-FMO5 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-FMO5 antibody	Metabolic N-oxidation of the diet-derived amino-trimethylamine (TMA) is mediated by flavin-containing monooxygenase and is subject to an inherited FMO3 polymorphism in man resulting in a small subpopulation with reduced TMA N-oxidation capacity resulting in fish odor syndrome Trimethylaminuria. Three forms of the enzyme, FMO1 found in fetal liver, FMO2 found in adult liver, and FMO3 are encoded by genes clustered in the 1q23-q25 region. Flavin-containing monooxygenases are NADPH-dependent flavoenzymes that catalyzes the oxidation of soft nucleophilic heteroatom centers in drugs, pesticides, and xenobiotics. Alternative splicing results in multiple transcript variants.

Product References and Citations for anti-FMO5 antibody	Rose, J. Phd, et al. Mol. Med. (2010). In press: Ross, C.J., et al. Nat. Genet. 41(12):1345-1349(2009). Wheeler, H.E., et al. PLoS Genet. 5 (10), E1000685 (2009): Zhang, J., et al. Drug Metab. Dispos. 34(1):19-26(2006). Furnes, B., et al. Drug Metab. Dispos. 31(2):187-193(2003).
Other Notes	Small volumes of anti-FMO5 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for FMO5 purchase	MBS6299473 is an antibody targeting FMO5. Also known as FMO5, CT (FMO5, Dimethylaniline monooxygenase [N-oxide-forming] 5, Dimethylaniline oxidase 5, Hepatic flavin-containing monooxygenase 5) (MaxLight 490). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FMO5. It may not necessarily be applicable to this product.

NCBI GI #	221316672
NCBI GeneID	2330
NCBI Accession #	NP_001452.2
UniProt Primary Accession #	P49326
UniProt Secondary Accession #	Q8IV22; B2RBG1; C9JJD1
UniProt Related Accession #	P49326
GenBank Nucleotide #	NM_001461.3
NCBI Official Full Name	dimethylaniline monooxygenase
NCBI Official Synonym Full Names	flavin containing monooxygenase 5
NCBI Official Symbol	FMO5
UniProt Protein Name	Dimethylaniline monooxygenase [N-oxide-forming] 5
UniProt Synonym Protein Names	Dimethylaniline oxidase 5; Hepatic flavin-containing monooxygenase 5; FMO 5
Protein Family	Dimethylaniline monooxygenase
UniProt Gene Name	FMO5
UniProt Synonym Gene Names	FMO 5
UniProt Entry Name	FMO5_HUMAN
NCBI Protein Information	dimethylaniline monooxygenase [N-oxide-forming] 5; dimethylaniline monooxygenase [N-oxide-forming] 5; FMO 5; dimethylaniline oxidase 5; hepatic flavin-containing monooxygenase 5
UniProt Comments for FMO5	FMO5: In contrast with other forms of FMO it does not seem to be a drug-metabolizing enzyme. Belongs to the FMO family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 1.14.13.8; Oxidoreductase; Xenobiotic Metabolism - drug metabolism - cytochrome P450 Chromosomal Location of Human Ortholog: 1q21.1 Cellular Component: endoplasmic reticulum membrane; integral to membrane Molecular Function: FAD binding; NADP binding; flavin-containing monooxygenase activity
Research Articles on FMO5	**1.** Clinical trial of gene-disease association and gene-environment interaction. (HuGE Navigator)

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