



Anti-FMO5 monoclonal antibody (DCABH-11588)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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.
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Immunogen	A synthetic peptide of human FMO5 is used for rabbit immunization.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Mouse, Human
Purification	Protein A
Conjugate	Unconjugated
Applications	ICC/IF, IHC-P, IP, WB
Size	100 µl
Buffer	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA,
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	FMO5 flavin containing monooxygenase 5 [Homo sapiens]
Official Symbol	FMO5
Synonyms	FMO5; flavin containing monooxygenase 5; dimethylaniline monooxygenase [N-oxide-forming] 5; FMO 5; dimethylaniline oxidase 5; hepatic flavin-containing monooxygenase 5;
Entrez Gene ID	2330
Protein Refseq	NP_001138301
UniProt ID	P49326
Chromosome Location	1q21.1
Pathway	Drug metabolism - cytochrome P45, organism-specific biosystem; Drug metabolism - cytochrome P45, conserved biosystem.
Function	N,N-dimethylaniline monooxygenase activity; N,N-dimethylaniline monooxygenase activity; NADP binding; flavin adenine dinucleotide binding; monooxygenase activity;