

DNAxPAb

Hard-to-Find
Antibody

FMO3 DNAxPab

Catalog # H00002328-W01P

Size 200 ug

Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human FMO3 DNA using DNAx™ Immune technology.
Technology	DNAx™ Immune
Immunogen	Full-length human DNA
Sequence	MGKKVAIIGAGVSGLASIRSCLEEGLEPTCFEKSNDIGGLWKFSDHAEGRASIYKSVFSNSSKEM MCFPDFPFPDDFPNFMHNSKIQEYIAFAKEKNLLKYQKTFVSSVNKHPDFATTGQWDVTTERD GKKESAVFDAMVCSGHHVYPNLPKESFPGLNHFKGKCFHSRDYKEPGVFNGKRVLVVGLGNS GCDIATELSRTAEQVMISSRSGSWVMSRVWDNGYPWDMLLVTRFGTFLKNNLPTAISDWLYMKQ MNARFKHENYGLMPLNGVLRKEPVFNDELPA SILCGVSVKPNVKEFTETSAIFEDGTIFEGIDCVIF ATGYSFAYPFLDESIKSRNNEILFKGVFPPLLEKSTIAVIGFVQSLGAAIPTVDLQSRWAAQVIKGC TLPSMEDMMNDINEKMEKKRKWFGKSETIQTDYVYMDLSSFIGAKPNIPWLFLTDPKLAMEVYF GPCSPYQFRLVGPQGQWPGARNAILTQWDRSLKPMQTRVVGRLQKPCFFHFWLKLFAIPILLIAVFL VLT
Host	Rabbit
Reactivity	Human
Purification	Protein A
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- Immunofluorescence (Transfected cell)
- Flow Cytometry (Transfected cell)

Gene Info — FMO3

Entrez GeneID [2328](#)

GeneBank Accession# [BC032016.1](#)

Protein Accession# [AAH32016.1](#)

Gene Name FMO3

Gene Alias FMOII, MGC34400, TMAU, dJ127D3.1

Gene Description flavin containing monooxygenase 3

Omim ID [136132 602079](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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 metabolized 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

Other Designations Flavin-containing monooxygenase-3|OTTHUMP00000033540

Pathway

- [Drug metabolism - cytochrome P450](#)

Disease

- [Adenoma](#)
- [Adenomatous Polyposis Coli](#)
- [Adenomatous Polyps](#)
- [Brain Neoplasms](#)
- [Cardiovascular Diseases](#)
- [Colon cancer](#)
- [Colorectal Neoplasms](#)
- [Ductus Arteriosus](#)
- [Genetic Predisposition to Disease](#)
- [Hearing Loss](#)
- [Hypertension](#)
- [Infant](#)
- [Kidney Failure](#)
- [Metabolism](#)
- [Obesity](#)
- [Ovarian Failure](#)
- [Polycystic Ovary Syndrome](#)
- [Puberty](#)
- [Schizophrenia](#)
- [Sudden Infant Death](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)