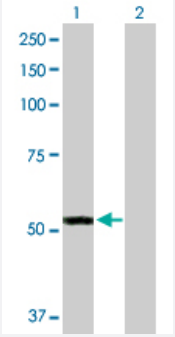
MaxPab®

FMO3 purified MaxPab rabbit polyclonal antibody (D01P)

Catalog # H00002328-D01P Size 100 ug

Applications



Western Blot (Transfected lysate)

Western Blot analysis of FMO3 expression in transfected 293T cell line (H00002328-T02) by FMO3 MaxPab polyclonal antibody.

Lane 1: FMO3 transfected lysate(60.10 KDa).
Lane 2: Non-transfected lysate.

Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human FMO3 protein.
Immunogen	FMO3 (AAH32016.1, 1 a.a. ~ 532 a.a) full-length human protein.
Sequence	MGKKVAIIGAGVSGLASIRSCLEEGLEPTCFEKSNDIGGLWKFSDHAEEGRASIYKSVFSNSSKEM MCFPDFPFPDDFPNFMHNSKIQEYIIAFAKEKNLLKYIQFKTFVSSVNKHPDFATTGQWDVTTERD GKKESAVFDAVMVCSGHHVYPNLPKESFPGLNHFKGKCFHSRDYKEPGVFNGKRVLVVGLGNS GCDIATELSRTAEQVMISSRSGSWVMSRVWDNGYPWDMLLVTRFGTFLKNNLPTAISDWLYMKQ MNARFKHENYGLMPLNGVLRKEPVFNDELPASILCGIVSVKPNVKEFTETSAIFEDGTIFEGIDCVIF ATGYSFAYPFLDESIIKSRNNEIILFKGVFPPLLEKSTIAVIGFVQSLGAAIPTVDLQSRWAAQVIKGTC TLPSMEDMMNDINEKMEKKRKWFGKSETIQTDYIVYMDELSSFIGAKPNIPWLFLTDPKLAMEVYF GPCSPYQFRLVGPGQWPGARNAILTQWDRSLKPMQTRVVGRLQKPCFFFHWLKLFAIPILLIAVFL VLT
Host	Rabbit
Reactivity	Human
Interspecies Antigen Sequence	Mouse (79); Rat (81)
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.

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  Protocol Download

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 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

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