

FMO1 Mouse mAb

Catalog No.: A22952

Basic Information

Observed MW

60kDa

Calculated MW

60kDa

Category

Primary antibody

Applications

WB,IHC-P,ELISA

Cross-Reactivity

Mouse, Rat

CloneNo number

AMC0582

Background

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. Several transcript variants encoding different isoforms have been found for this gene.

Recommended Dilutions

WB 1:500 - 1:1000

IHC-P 1:50 - 1:200

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

2326

Swiss Prot

Q01740

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 275-305 of human FMO1 (Q01740).

Synonyms

FMO1; flavin containing monooxygenase 1

Contact

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Product Information

Source

Mouse

Isotype

IgG1 κ

Purification

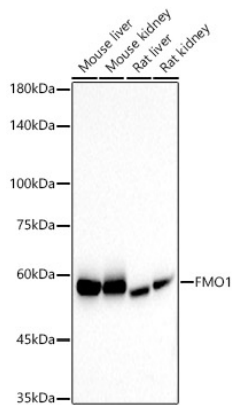
Affinity purification

Storage

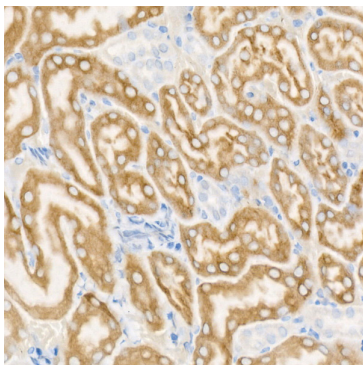
Store at 4°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.1% sodium azide and 0.1% gelatin.

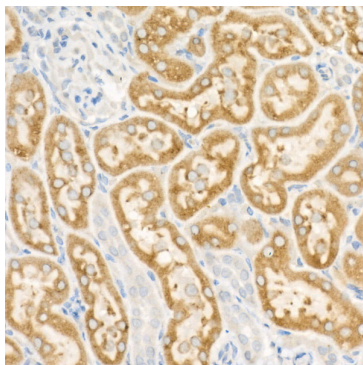
Validation Data



Western blot analysis of various lysates, using FMO1 Mouse mAb (A22952) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 180s.



Immunohistochemistry analysis of paraffin-embedded Mouse kidney using FMO1 Mouse mAb (A22952) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat kidney using FMO1 Mouse mAb (A22952) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.