

Anti-Flavin Containing Monooxygenase 4 Antibody
Catalog # ABO11190**Specification**

Anti-Flavin Containing Monooxygenase 4 Antibody - Product Information

Application	WB, IHC
Primary Accession	P31512
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Dimethylaniline monooxygenase[N-oxide-forming] 4(FMO4) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Flavin Containing Monooxygenase 4 Antibody - Additional Information

Gene ID 2329

Other Names

Dimethylaniline monooxygenase [N-oxide-forming] 4, 1.14.13.8, Dimethylaniline oxidase 4, Hepatic flavin-containing monooxygenase 4, FMO 4, FMO4, FMO2

Calculated MW

63343 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Rat, Human, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization

Microsome membrane. Endoplasmic reticulum membrane.

Tissue Specificity

Liver.

Protein Name

Dimethylaniline monooxygenase [N-oxide-forming] 4

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminus of human Flavin containing monooxygenase 4(75-92aa HEDYPNFMNHEKFWDYLQ), different from the related rat sequence by two amino acids, and from the related mouse sequence by three amino acids.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the FMO family.

Anti-Flavin Containing Monooxygenase 4 Antibody - Protein Information

Name FMO4

Synonyms FMO2

Function

This protein is involved in the oxidative metabolism of a variety of xenobiotics such as drugs and pesticides.

Cellular Location

Microsome membrane {ECO:0000250|UniProtKB:Q8K4B7}; Single-pass membrane protein.
Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q8K4B7}; Single-pass membrane protein

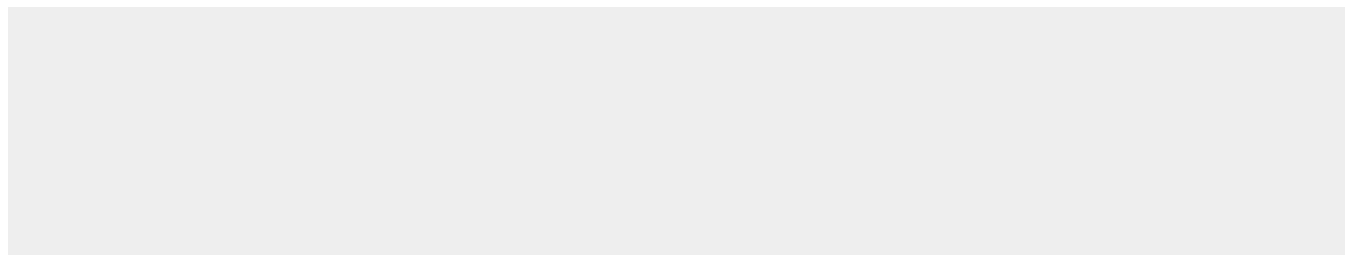
Tissue Location

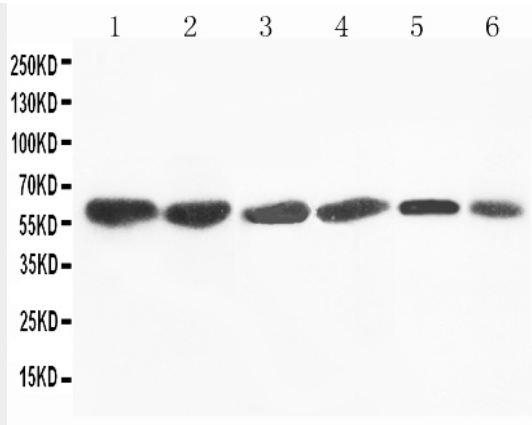
Liver.

Anti-Flavin Containing Monooxygenase 4 Antibody - Protocols

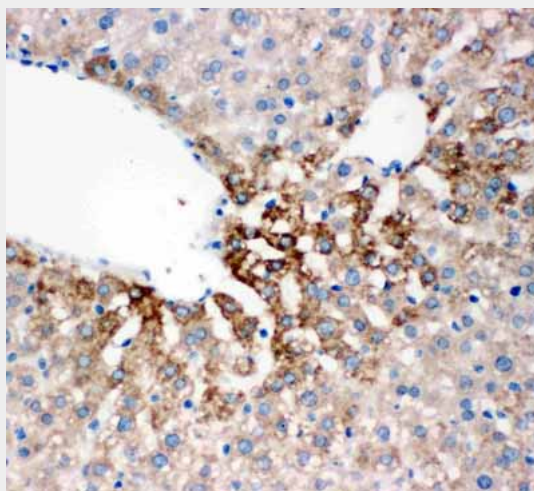
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Flavin Containing Monooxygenase 4 Antibody - Images



Anti-Flavin containing monooxygenase 4 antibody, ABO11190, Western blotting
Lane 1: Rat Liver Tissue Lysate
Lane 2: Mouse Liver Tissue Lysate
Lane 3: SMMC Cell Lysate
Lane 4: HEPA Cell Lysate
Lane 5: A431 Cell Lysate
Lane 6: MCF-7 Cell Lysate



Anti-Flavin containing monooxygenase 4 antibody, ABO11190, IHC(P)
IHC(P): Rat Liver Tissue

Anti-Flavin Containing Monooxygenase 4 Antibody - Background

FMO4(Flavin-containing monooxygenase 4) also known as FMO2, FORMERLY or FMO, ADULT LIVER FORM, is an enzyme that in humans is encoded by the FMO4 gene. By PCR analysis, Dolphin et al.(1992) mapped the FMO4 gene to chromosome 1. Southern blot hybridization with single exon probes demonstrated that human FMO4 and FMO1 are, in each case, the product of a single gene. Lawton et al.(1994) proposed a reclassification of mammalian FMOs. Under this system, FMO2 described by Dolphin et al.(1992) is now designated FMO4.