

Datasheet for ABIN3043006  
**anti-FMO4 antibody (N-Term)**

## 3 Images

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## Overview

Quantity:	100 µg
Target:	FMO4
Binding Specificity:	AA 75-92, N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FMO4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for Dimethylaniline monooxygenase[N-oxide-forming] 4(FMO4) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
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.
Sequence:	HEDYPNFMNH EKFWDYQLQ
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Dimethylaniline monooxygenase[N-oxide-forming] 4(FMO4) detection. Tested with WB, IHC-P in Human,Mouse,Rat.  Gene Name: flavin containing monooxygenase 4

## Product Details

Protein Name: Dimethylaniline monooxygenase [N-oxide-forming] 4

Purification: Immunogen affinity purified.

## Target Details

Target: FMO4

Alternative Name: FMO4 ([FMO4 Products](#))

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.

Synonyms: Dimethylaniline monooxygenase[N oxide forming] 4 antibody|Dimethylaniline monooxygenase[N-oxide-forming] 4 antibody|Dimethylaniline monooxygenase 4 antibody|Dimethylaniline oxidase 4 antibody|FMO 2 antibody|FMO 4 antibody|FMO2 antibody|Fmo4 antibody|FMO4\_HUMAN antibody|Hepatic flavin containing monooxygenase 4 antibody|Hepatic flavin-containing monooxygenase 4 antibody|OTTHUMP00000060454 antibody

UniProt: [P31512](#)

## Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat  
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Rat, Predicted Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.  
Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.  
Optimal dilutions should be determined by end users.

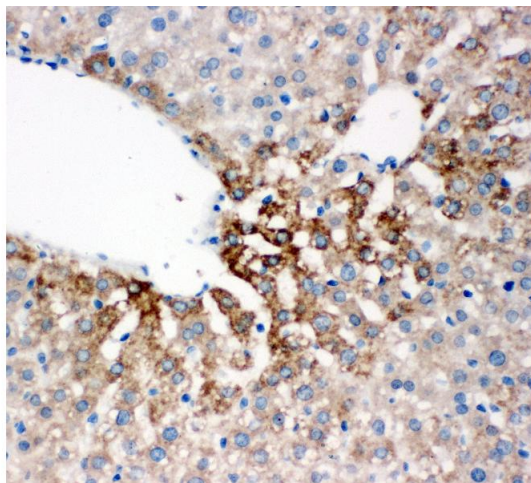
Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

## Handling

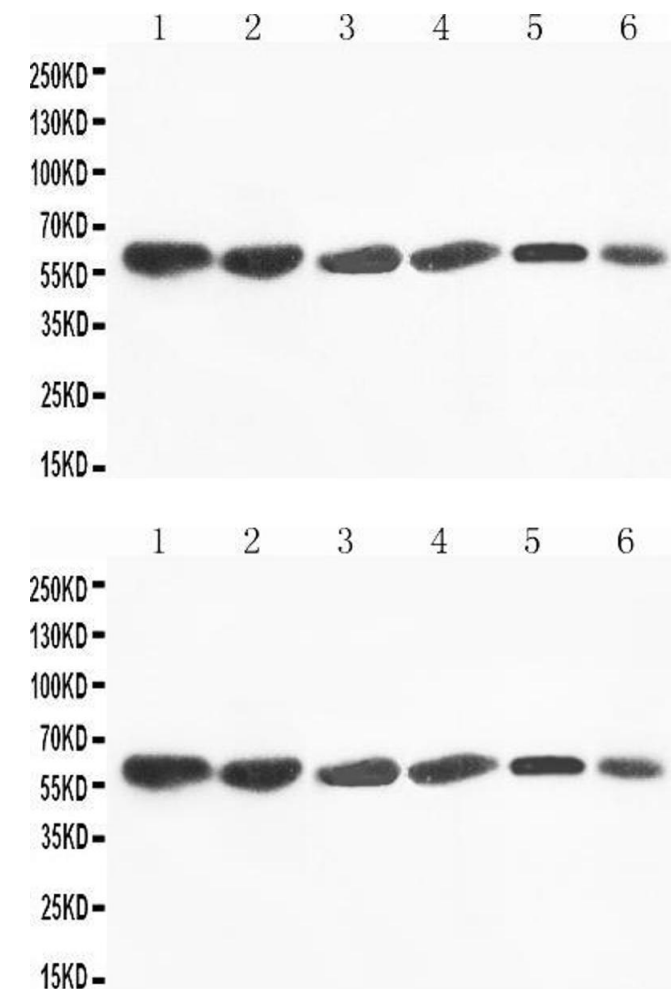
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	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.
Expiry Date:	12 months

## Images



### Immunohistochemistry

**Image 1.** Anti-Flavin containing monooxygenase 4 antibody,  
IHC(P) IHC(P): Rat Liver Tissue



**Western Blotting**

**Image 2.** Anti-Flavin containing monooxygenase 4 antibody, 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

**Western Blotting**

**Image 3.** Anti-Flavin containing monooxygenase 4 antibody, 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