

## Anti-Flavin containing monooxygenase 4/FMO4 Antibody Picoband®

Catalog Number: PA1883

### About FMO4

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.

### Overview

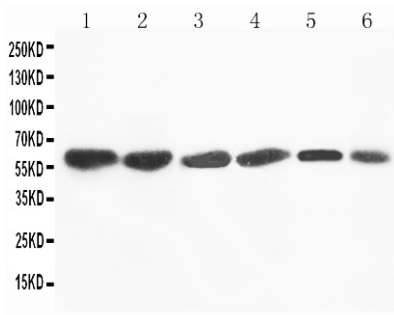
Product Name	Anti-Flavin containing monooxygenase 4/FMO4 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Flavin containing monooxygenase 4/FMO4 Antibody catalog # PA1883. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P31512

### Technical Details

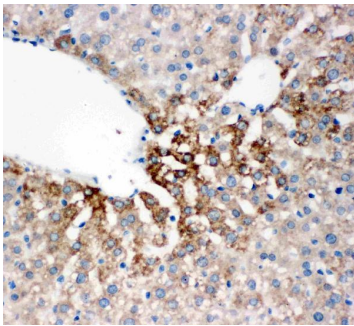
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human Flavin containing monooxygenase 4, different from the related rat sequence by two amino acids, and from the related mouse sequence by three amino acids.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins

Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Rat, Human Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat

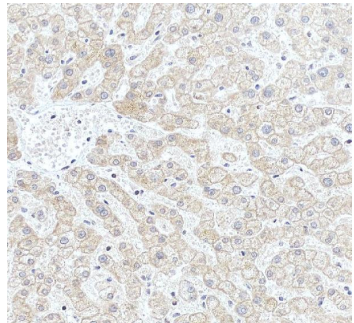
## Anti-Flavin containing monooxygenase 4/FMO4 Antibody Picoband® (PA1883) Images



Anti-Flavin containing monooxygenase 4 antibody, PA1883, 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, PA1883, IHC(P)  
IHC(P): Rat Liver Tissue



IHC analysis of FMO4 using anti-FMO4 antibody (PA1883). FMO4 was detected in a paraffin-embedded section of human liver tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-FMO4 Antibody (PA1883) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

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