

## Anti-Monoamine Oxidase B/MAOB Antibody Picoband®

Catalog Number: PA1649

### About Maob

MAOB (MONOAMINE OXIDASE B), also called MAO, BRAIN, AMINE OXIDASE (FLAVIN-CONTAINING) B, is a protein that in humans is encoded by the MAOB gene. MAOB is a member of the flavin monoamine oxidase family. And it is mapped on Xp11.3. MAOB catalyzes the oxidative deamination of biogenic and xenobiotic amines and plays an important role in the metabolism of neuroactive and vasoactive amines in the central nervous system and peripheral tissues. This protein preferentially degrades benzylamine and phenylethylamine. Like MAOA, it also degrades dopamine. MAO-B is involved in the breakdown of dopamine, a neurotransmitter implicated in reinforcing and motivating behaviors as well as movement. MAO-B inhibition is, therefore, associated with enhanced activity of dopamine, as well as with decreased production of hydrogen peroxide, a source of reactive oxygen species.

### Overview

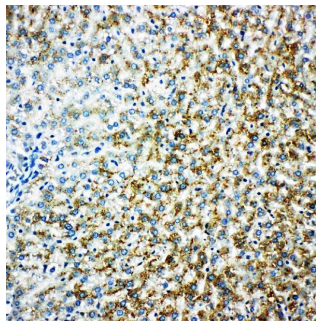
Product Name	Anti-Monoamine Oxidase B/MAOB Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Monoamine Oxidase B/MAOB Antibody catalog # PA1649. Tested in IHC, WB applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that 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	Q8BW75

### Technical Details

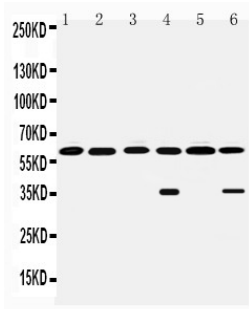
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of mouse MAOB, identical to the related rat sequence.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western

	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, Mouse, Rat Western blot, 0.1-0.5ug/ml, Mouse, Rat

## Anti-Monoamine Oxidase B/MAOB Antibody Picoband® (PA1649) Images



Anti-MAOB antibody, PA1649, IHC(P)IHC(P): Rat Liver Tissue



Anti-MAOB antibody, PA1649, Western blotting  
All lanes: Anti MAOB (PA1649) at 0.5ug/ml  
Lane 1: Mouse Liver Tissue Lysate at 50ug  
Lane 2: Mouse Lung Tissue Lysate at 50ug  
Lane 3: Rat Kidney Tissue Lysate at 50ug  
Lane 4: Rat Brain Tissue Lysate at 50ug  
Lane 5: Rat Liver Tissue Lysate at 50ug  
Lane 6: Rat Lung Tissue Lysate at 50ug  
Predicted bind size: 59KD  
Observed bind size: 59KD

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For Research Use Only. Not for use in diagnostic procedures.