

Datasheet for ABIN3043132

anti-Monoamine Oxidase B antibody (N-Term)[Go to Product page](#)**2** Images

Overview

Quantity:	100 µg
Target:	Monoamine Oxidase B (MAOB)
Binding Specificity:	AA 42-56, N-Term
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Monoamine Oxidase B antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	Anti-Monoamine Oxidase B/MAOB Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of mouse MAOB, identical to the related rat sequence.
Sequence:	RTYTIRNKNV KYVDL
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	<p>Anti-Monoamine Oxidase B/MAOB Antibody (ABIN3043132). Tested in IHC, WB applications.</p> <p>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.</p>

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: Monoamine Oxidase B (MAOB)

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

Background: Synonyms: Amine oxidase [flavin-containing] B, 1.4.3.4, Monoamine oxidase type B, MAO-B, Maob, Tissue Specificity: Heart, liver, duodenum, blood vessels and kidney.

Background: 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.

Sequence Similarities: Belongs to the flavin monoamine oxidase family.

Molecular Weight: 59 kDa

Application Details

Application Notes: Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Mouse, Rat
Western blot, 0.1-0.5 µg/mL, Mouse, Rat

1. Bach, A. W., Lan, N. C., Johnson, D. L., Abell, C. W., Bembenek, M. E., Kwan, S.-W., Seeburg, P. H., Shih, J. C. cDNA cloning of human liver monoamine oxidase A and B: molecular basis of differences in enzymatic properties. Proc. Nat. Acad. Sci. 85: 4934-4938, 1988. 2. Binda, C., Newton-Vinson, P., Hubalek, F., Edmondson, D. E., Mattevi, A. Structure of human monoamine oxidase B, a drug target for the treatment of neurological disorders. Nature Struct. Biol. 9: 22-26, 2002. 3. Edmondson DE, Binda C, Mattevi A (2007). "STRUCTURAL INSIGHTS INTO THE MECHANISM OF AMINE OXIDATION BY MONOAMINE OXIDASES A AND B". Archives of Biochemistry and Biophysics 464 (2): 269-76.

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

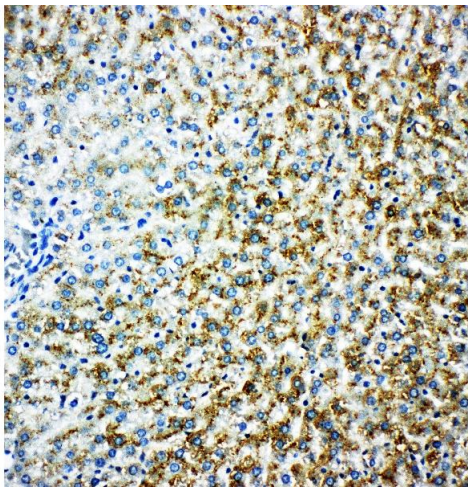
Application Details

Restrictions: For Research Use only

Handling

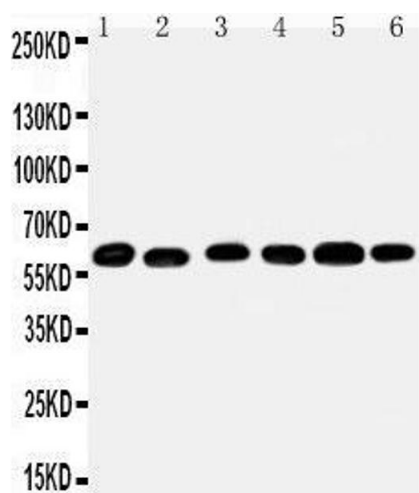
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Thimerosal (Merthiolate) and Sodium azide: 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:	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.
Expiry Date:	12 months

Images



Immunohistochemistry

Image 1. Anti-Monoamine Oxidase B antibody, IHC(P)
IHC(P): Rat Liver Tissue



Western Blotting

Image 2. Anti-Monoamine Oxidase B antibody, Western blotting Lane 1: Mouse Liver Tissue Lysate Lane 2: Mouse Lung Tissue Lysate Lane 3: Rat Kidney Tissue Lysate Lane 4: Rat Brain Tissue Lysate Lane 5: Rat Liver Tissue Lysate Lane 6: Rat Lung Tissue Lysate