

Datasheet for ABIN3043133

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

Overview

Quantity:	100 µg
Target:	Monoamine Oxidase A (MAOA)
Binding Specificity:	AA 51-69, N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Monoamine Oxidase A antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	Anti-Monoamine Oxidase A/MAOA Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human MAOA.
Sequence:	RTYTIRNEHV DYVDVGGAY
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-Monoamine Oxidase A/MAOA Antibody (ABIN3043133). 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.

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: Monoamine Oxidase A (MAOA)

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

Background: Synonyms: Amine oxidase [flavin-containing] A, 1.4.3.4, Monoamine oxidase type A, MAO-A, MAOA,
Tissue Specificity: Heart, liver, duodenum, blood vessels and kidney.
Background: MAOA (Monoamine oxidase A), also known as AMINE OXIDASE (FLAVIN-CONTAINING) A, is an enzyme that in humans is encoded by the MAO-A gene. MAOA is an isozyme of monoamine oxidase which is also mapped on Xp11.3. MAOA degrades amine neurotransmitters, such as dopamine, norepinephrine, and serotonin. The protein localizes to the outer mitochondrial membrane. Mutation in MAOA results in monoamine oxidase deficiency, or Brunner syndrome. In humans, there is a 30-base repeat sequence repeated in one of several different numbers of times in the promoter region of the gene coding for MAOA. MAO-A levels in the brain as measured using positron emission tomography are elevated by an average of 34 % in patients with major depressive disorder. Inhibition of MAOA prevented apoptosis, and serum starvation of cortical brain cells from Maa-deficient mice resulted in reduced apoptosis compared with wildtype mice.
Sequence Similarities: Belongs to the flavin monoamine oxidase family.

Molecular Weight: 65 kDa

UniProt: [P21397](#)

Application Details

Application Notes: Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human
Western blot, 0.1-0.5 µg/mL, Human, Mouse, Rat
1. Breakefield, X. O., Ozelius, L., Hsu, Y. P., Powell, J., Utterback, M., Gusella, J. F., Bruns, G. A. Gene for A form of human monoamine oxidase (MAOA) maps to Xp21-Xp11. (Abstract) Am. J. Hum. Genet. 41: A209 only, 1987. 2. Brunner, H. G., Nelen, M., Breakefield, X. O., Ropers, H. H., van Oost, B. A. Abnormal behavior associated with a point mutation in the structural gene for monoamine oxidase A. Science 262: 578-580, 1993. 3. PDB 2BXS, De Colibus L, Li M, Binda C, Lustig A, Edmondson DE, Mattevi A (September 2005). "Three-dimensional structure of human monoamine oxidase A (MAO A): relation to the structures of rat MAO A and human MAO B".

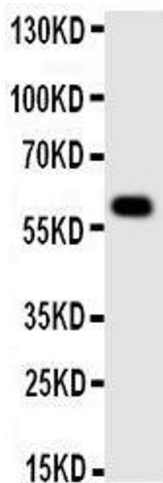
Application Details

Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

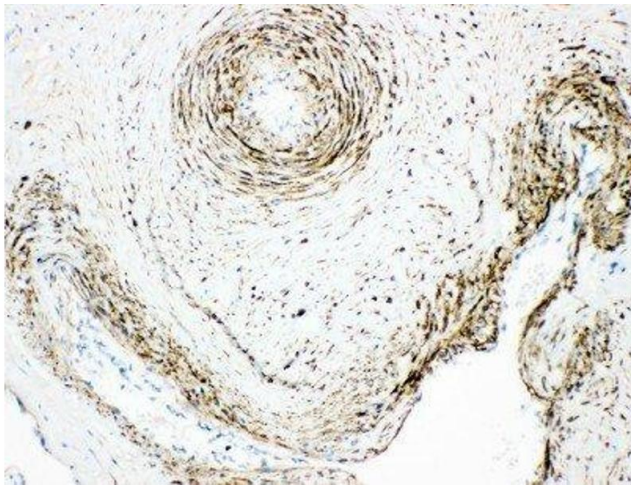
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution 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



Western Blotting

Image 1.



Immunohistochemistry

Image 2. Anti-Monoamine Oxidase A antibody, IHC(P)
IHC(P): Human Placenta Tissue