

MAOA Polyclonal Antibody | anti-MAOA antibody

Anti-MAOA Antibody

CATALOG # AAA46312	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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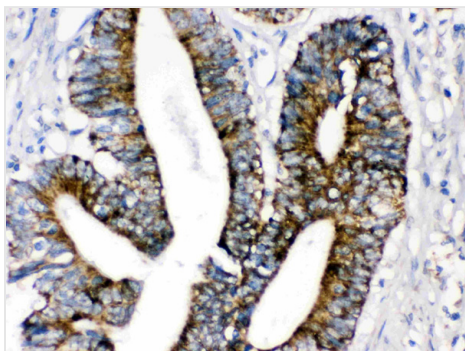
PRODUCT SYNONYMS

MAOA; Polyclonal Antibody; Anti-MAOA Antibody; Amine oxidase [flavin-containing] A; Amine oxidase [flavin containing] A; AOFA; AOFA_HUMAN; EC 1.4.3.4; MAO A; MAO-A; Maoa; Monoamine oxidase A; Monoamine oxidase type A antibody; monoamine oxidase A; anti-MAOA antibody

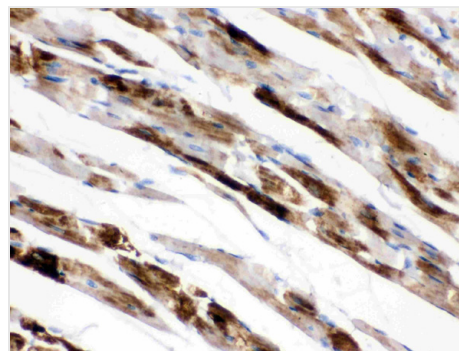
PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Sequence Length	527
Applicable Applications for anti-MAOA antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human MAOA (457-493aa REVLNGLGKVTEKDIWVQEPESKDVPVEITHTFWER), different from the related mouse sequence by five amino acids, and from the related rat sequence by six amino acids.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

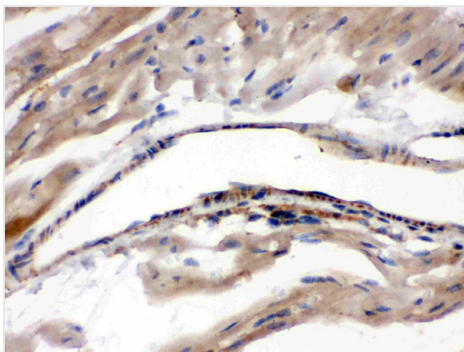
IMAGES



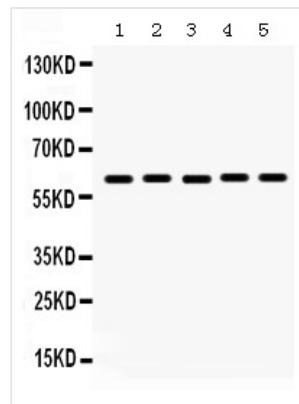
IHC (Immunohistochemistry)
Anti- MAOA Picoband antibody, AAA46312,IHC(P)IHC(P): Human Intestinal Cancer Tissue



IHC (Immunohistochemistry)
Anti- MAOA Picoband antibody, AAA46312,IHC(P)IHC(P): Rat Cardiac Muscle Tissue



IHC (Immunohistochemistry)
Anti- MAOA Picoband antibody, AAA46312,IHC(P)IHC(P): Mouse Cardiac Muscle Tissue



WB (Western Blot)
Anti- MAOA Picoband antibody, AAA46312, Western blottingAll lanes: Anti MAOA (AAA46312) at 0.5ug/mlLane 1: Rat Kidney Tissue Lysate at 50ugLane 2: Mouse Kidney Tissue Lysate at 50ugLane 3: COLO320 Whole Cell Lysate at 40ugLane 4: HEPG2 Whole Cell Lysate at 40ugLane 5: HEPA Whole Cell Lysate at 40ugPredicted bind size: 60KDObserved bind size: 60KD

ADDITIONAL INFORMATION

Related Product Information for anti-MAOA antibody	Description: Rabbit IgG polyclonal antibody for Amine oxidase [flavin-containing] A(MAOA) detection. Tested with WB, IHC-P in Human;Mouse;Rat. 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.
References	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".

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557735
NCBI GeneID	4128
NCBI Accession #	NP_000231.1
NCBI GenBank Nucleotide #	NM_000240.3
UniProt Accession #	P21397 ; Q16426 ; B4DF46
Molecular Weight	44,848 Da
NCBI Official Full Name	amine oxidase
NCBI Official Synonym Full Names	monoamine oxidase A
NCBI Official Symbol	MAOA
NCBI Official Synonym Symbols	MAO-A

NCBI Protein Information	amine oxidase [flavin-containing] A
UniProt Protein Name	Amine oxidase [flavin-containing] A
UniProt Gene Name	MAOA
UniProt Synonym Gene Names	MAO-A
UniProt Entry Name	AOFA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/maoa-antibody-immunohistochemistry-western-blot-elisa/46312>