

MAOB Polyclonal Antibody | anti-MAOB antibody

Anti-MAOB Antibody

CATALOG # AAA46288	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

MAOB; Polyclonal Antibody; Anti-MAOB Antibody; Amine oxidase [flavin-containing] B; Adrenalin oxidase; Amine oxidase (flavin containing); AOFB_HUMAN; HGNC:6834; MAO; brain; platelet; MAO-B; MGC26382; Monoamine oxidase B; Monoamine oxidase type B; OTTHUMP00000023166; RP1 201D17__B.1; Tyramine oxidase antibody; monoamine oxidase B; anti-MAOB antibody

PRODUCT SPECIFICATIONS

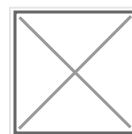
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	520
Applicable Applications for anti-MAOB antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human MAOB (448-484aa REILHAMGKIPEDIWQSEPSVDVPAQPITTTFLER), different from the related mouse sequence by five amino acids, and from the related rat sequence by four 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



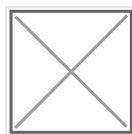
WB (Western Blot)

Anti- MAOB Picoband antibody, AAA46288, Western blottingAll lanes: Anti MAOB (AAA46288) at 0.5ug/mlLane 1: Rat Brain Tissue Lysate at 50ugLane 2: Mouse Brain Tissue Lysate at 50ugPredicted bind size: 59KDObserved bind size: 59KD



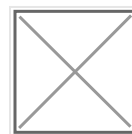
IHC (Immunohistochemistry)

Anti- MAOB Picoband antibody, AAA46288,IHC(P)IHC(P): Human Lung Cancer Tissue



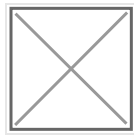
IHC (Immunohistochemisry)

Anti- MAOB Picoband antibody, AAA46288,IHC(P)IHC(P): Rat Intestine Tissue



IHC (Immunohiostchemistry)

Anti- MAOB Picoband antibody, AAA46288,IHC(P)IHC(P): Mouse Intestine Tissue



WB (Western Blot)

Anti- MAOB Picoband antibody, AAA46288, Western blottingAll lanes: Anti MAOB (AAA46288) at 0.5ug/mlLane 1: Rat Cardiac MuscleTissue Lysate at 50ugLane 2: Rat Kidney Tissue Lysate at 50ugLane 3: Rat Intestine Tissue Lysate at 50ugLane 4: Mouse Kidney Tissue Lysate at 50ugLane 5: Mouse Intestine Tissue Lysate at 50ugLane 6: Mouse Cardiac Muscle Tissue Lysate at 50ugLane 7: HEPG2 Whole Cell Lysate at 40ugLane 8: HELA Whole Cell Lysate at 40ugLane 9: COLO320 Whole Cell Lysate at 40ugPredicted bind size: 59KDObserved bind size: 59KD

ADDITIONAL INFORMATION

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

NCBI AND UNIPROT INFORMATION

NCBI GI #	38202207
NCBI GeneID	4129
NCBI Accession #	NP_000889.3
NCBI GenBank Nucleotide #	NM_000898.4
UniProt Accession #	P27338; Q7Z6S2; B2R6R3; B7Z5H3; D3DWC3
Molecular Weight	46,539 Da
NCBI Official Full Name	amine oxidase
NCBI Official Synonym Full Names	monoamine oxidase B
NCBI Official Symbol	MAOB
NCBI Protein Information	amine oxidase [flavin-containing] B
UniProt Protein Name	Amine oxidase [flavin-containing] B
UniProt Gene Name	MAOB
UniProt Synonym Gene Names	MAO-B
UniProt Entry Name	AOFB_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/maob-antibody-immunohistochemistry-western-blot-elisa/46288>