

Monoamine Oxidase B Polyclonal Antibody

Catalog NumberPA5-28338

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human, Mouse, Rat
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	ELISA (ELISA)	1:1,000-1:10,000
Type	Antibody	Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000
Immunogen	Recombinant fragment corresponding to a region within amino acids 163 and 501 of Human Monoamine Oxidase B	Western Blot (WB)	1:500-1:3,000
		Immunocytochemistry (ICC/IF)	1:100-1:1,000
Conjugate	Unconjugated	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Form	Liquid		
Concentration	0.88 mg/mL		
Purification	Antigen affinity chromatography		
Storage buffer	PBS, pH 7, with 20% glycerol		
Contains	0.025% ProClin 300		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

Recommended positive controls: HepG2, mouse liver. Predicted reactivity: Mouse (87%), Rat (86%), Dog (94%), Pig (90%), Bovine (90%), Guinea pig (86%). Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Background/Target Information

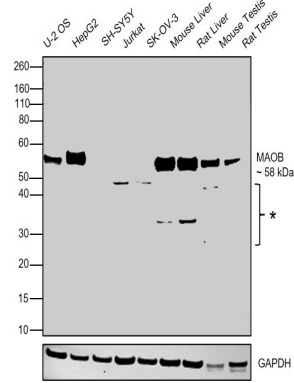
MAOB (Monoamine Oxidase B), also called MAO, BRAIN, AMINE OXIDASE (FLAVIN-CONTAINING) B, is a protein that in humans is encoded by the MAOB gene. MAOB is a member of the flavin monoamine oxidase family. And it is mapped on Xp11.3. MAOB catalyzes the oxidative deamination of biogenic and xenobiotic amines 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.

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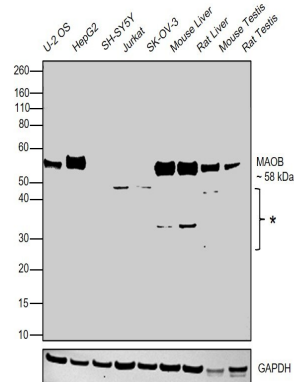
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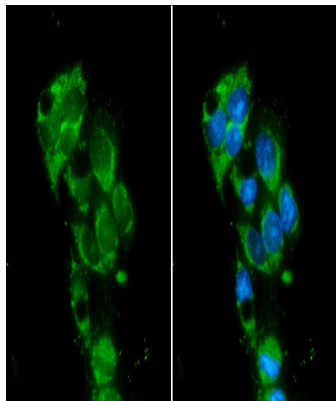
Monoamine Oxidase B Antibody (PA5-28338)

Antibody specificity was demonstrated by detection of differential basal expression of the target across U2-OS, HepG2, SH-SY5Y, Jurkat, SK-OV-3, Mouse Liver, Rat Liver, Mouse Testis, Rat Testis owing to their inherent genetic constitution. Relative expression of Amine oxidase [flavin-containing] B was observed in U2-OS, HepG2, Mouse Liver, Rat Liver, but not in SH-SY5Y, Jurkat, SK-OV-3, Mouse Testis, Rat Testis using Anti-Monoamine Oxidase B Polyclonal Antibody (Product # PA5-28338) in Western Blot. {RE}



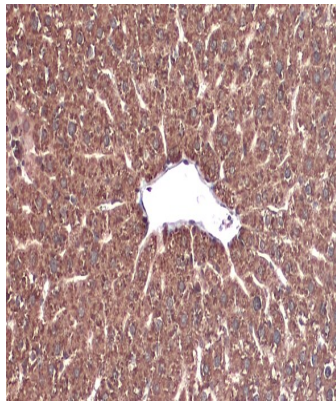
Monoamine Oxidase B Antibody (PA5-28338) in WB

Western blot was performed using Anti-Monoamine Oxidase B Polyclonal Antibody (Product # PA5-28338) and a 58kDa band corresponding to Amine oxidase [flavin-containing] B was observed across the cell lines tested and tissues tested. Whole cell extracts (30 µg lysate) of U2OS (Lane 1), Hep G2 (Lane 2), SH-SY5Y (Lane 3), Jurkat (Lane 4), SK-OV-3 (Lane 5), Mouse Liver (Lane 6), Rat Liver (Lane 7), Mouse Testis (Lane 8), Rat Testis (Lane 9) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Reagent Kit (Product # WP20005).



Monoamine Oxidase B Antibody (PA5-28338) in ICC/IF

Immunocytochemistry-Immunofluorescence analysis of Monoamine Oxidase B was performed in HepG2 cells fixed in ice cold MeOH for 5 min. Green: Monoamine Oxidase B Polyclonal Antibody (Product # PA5 28338) diluted at 1:500. Blue: Hoechst 33342 staining.



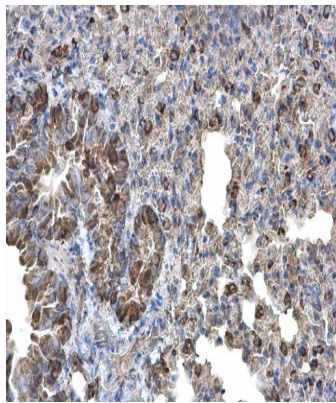
Monoamine Oxidase B Antibody (PA5-28338) in IHC (P)

Immunohistochemistry (Paraffin) analysis of Monoamine Oxidase B was performed in paraffin-embedded mouse liver tissue using Monoamine Oxidase B Polyclonal Antibody (Product # PA5-28338) at a dilution of 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.

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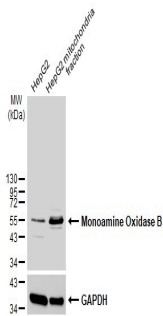


Monoamine Oxidase B Antibody (PA5-28338) in IHC (P)

Immunohistochemistry (Paraffin) analysis of Monoamine Oxidase B was performed in paraffin-embedded mouse lung tissue using Monoamine Oxidase B Polyclonal Antibody (Product # PA5-28338) at a dilution of 1:500.

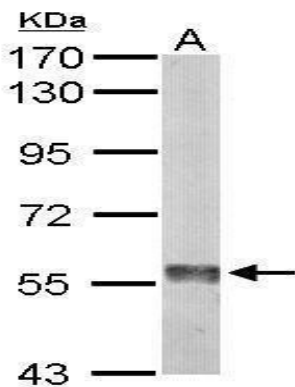
Monoamine Oxidase B Antibody (PA5-28338) in WB

Western Blot using Monoamine Oxidase B Polyclonal Antibody (Product # PA5-28338). HepG2 and mitochondria extracts (30 µg) were separated by SDS-PAGE, and the membrane was blotted with Monoamine Oxidase B Polyclonal Antibody (Product # PA5-28338) diluted at 1:1,000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



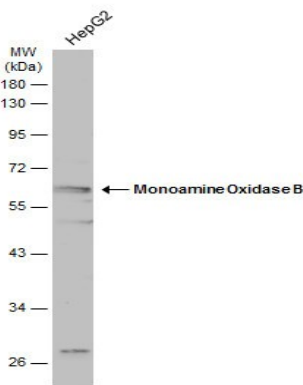
Monoamine Oxidase B Antibody (PA5-28338) in WB

Western Blot using Monoamine Oxidase B Polyclonal Antibody (Product # PA5-28338). Sample (50 µg of whole cell lysate). Lane A: Mouse liver. 7.5% SDS PAGE. Monoamine Oxidase B Polyclonal Antibody (Product # PA5-28338) diluted at 1:1,000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



Monoamine Oxidase B Antibody (PA5-28338) in WB

Western blot analysis of Monoamine Oxidase B was performed by separating 30 µg of whole cell extract by 10% SDS-PAGE. Proteins were transferred to a membrane and probed with a Monoamine Oxidase B Polyclonal Antibody (Product # PA5-28338) at a dilution of 1:1500. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



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