

Product datasheet

Anti-Monoamine Oxidase B/MAOB antibody [EPR7102] ab133270

Recombinant RabMAb

8 Images

Overview

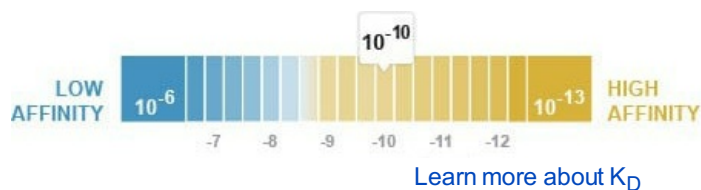
Product name	Anti-Monoamine Oxidase B/MAOB antibody [EPR7102]
Description	Rabbit monoclonal [EPR7102] to Monoamine Oxidase B/MAOB
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P Unsuitable for: ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human Monoamine Oxidase B/MAOB aa 1-100. The exact sequence is proprietary.
Positive control	Human fetal liver, fetal kidney, platelet, fetal brain and SH SY5Y lysates; Human brain and kidney tissues.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

Properties

Form Liquid

Storage instructions Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.

Dissociation constant (K_D) K_D = 1.90 x 10⁻¹⁰ M



Storage buffer pH: 7.20
Preservative: 0.01% Sodium azide
Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA

Purity Protein A purified

Clonality Monoclonal

Clone number EPR7102

Isotype IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab133270 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/10000. Detects a band of approximately 59 kDa (predicted molecular weight: 59 kDa).
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. Perform antigen retrieval before commencing with IHC staining protocol

Application notes Is unsuitable for ICC/IF.

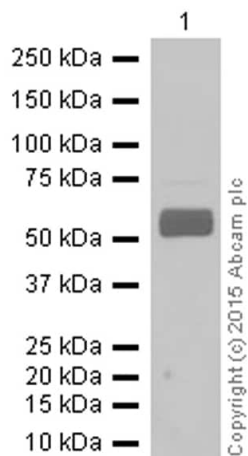
Target

Function Catalyzes the oxidative deamination of biogenic and xenobiotic amines and has important functions in the metabolism of neuroactive and vasoactive amines in the central nervous system and peripheral tissues. MAOB preferentially degrades benzylamine and phenylethylamine.

Sequence similarities Belongs to the flavin monoamine oxidase family.

Cellular localization Mitochondrion outer membrane.

Images



Western blot - Anti-Monoamine Oxidase B/MAOB antibody [EPR7102] (ab133270)

Anti-Monoamine Oxidase B/MAOB antibody [EPR7102] (ab133270) at 1/5000 dilution (purified) + HepG2 cell lysate at 20 μ g

Secondary

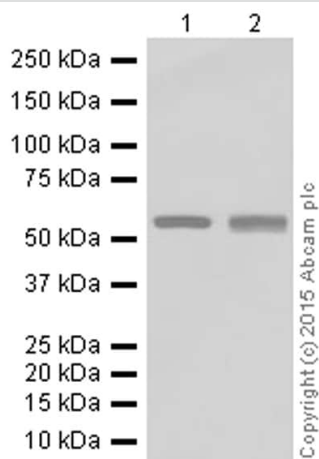
Anti-rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 59 kDa

Observed band size: 59 kDa

Blocking buffer: 5% NFDm/TBST

Dilution buffer: 5% NFDm/TBST



Western blot - Anti-Monoamine Oxidase B/MAOB antibody [EPR7102] (ab133270)

All lanes : Anti-Monoamine Oxidase B/MAOB antibody [EPR7102] (ab133270) at 1/2000 dilution (purified)

Lane 1 : Human fetal kidney lysate

Lane 2 : Human fetal brain lysate

Lysates/proteins at 20 μ g per lane.

Secondary

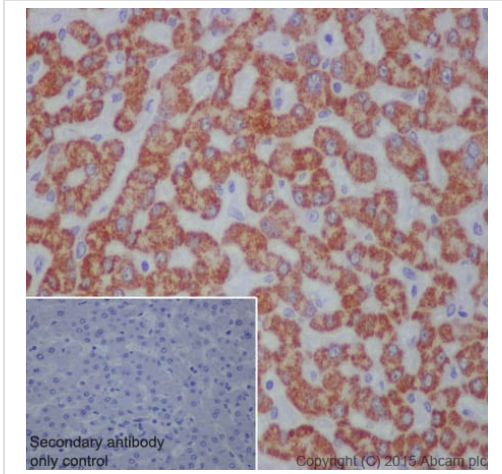
All lanes : Anti-rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 59 kDa

Observed band size: 59 kDa

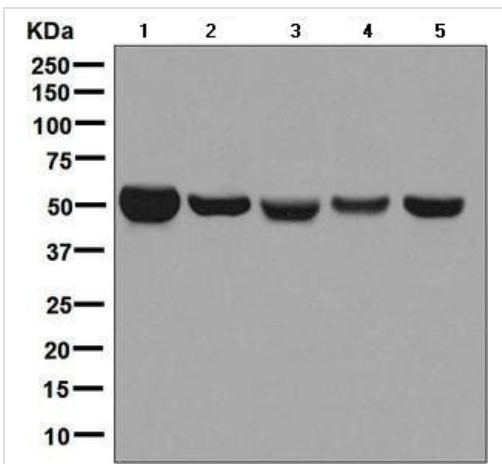
Blocking buffer: 5% NFDm/TBST

Dilution buffer: 5% NFDm/TBST



Immunohistochemical staining of paraffin embedded human liver with purified ab133270 at a working dilution of 1/300. The secondary antibody used is [ab97051](#), a goat anti-rabbit IgG (H&L) at a dilution of 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Monoamine Oxidase B/MAOB antibody [EPR7102] (ab133270)



Western blot - Anti-Monoamine Oxidase B/MAOB antibody [EPR7102] (ab133270)

All lanes : Anti-Monoamine Oxidase B/MAOB antibody [EPR7102] (ab133270) at 1/1000 dilution (Unpurified)

Lane 1 : Human fetal liver lysate

Lane 2 : Human fetal kidney lysate

Lane 3 : Human platelet lysate

Lane 4 : Human fetal brain lysate

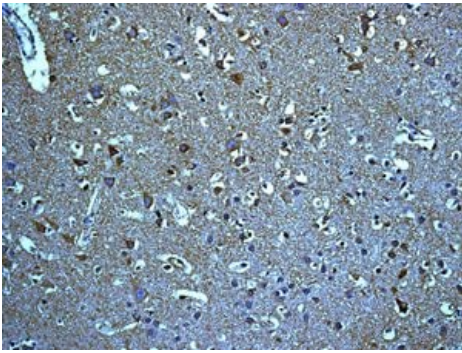
Lane 5 : SH SY5Y cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

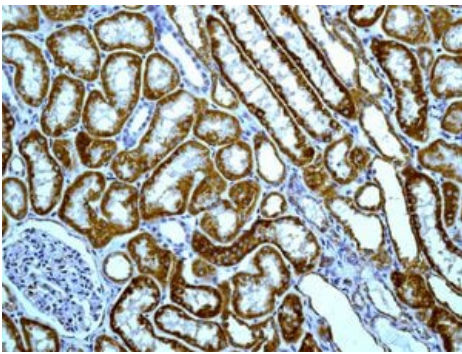
All lanes : Goat anti-rabbit HRP conjugated antibody at 1/2000 dilution

Predicted band size: 59 kDa



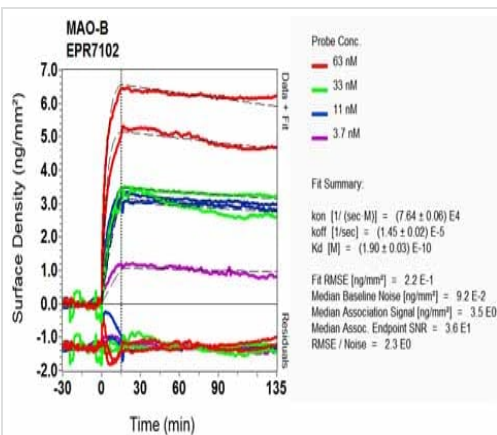
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Monoamine Oxidase B/MAOB antibody [EPR7102] (ab133270)

Immunohistochemical analysis of paraffin embedded human brain tissue labelling Monoamine Oxidase B/MAOB with unpurified ab133270 at 1/100 dilution. Produced under U.S. Patent No. 5,675,063.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Monoamine Oxidase B/MAOB antibody [EPR7102] (ab133270)

Immunohistochemical analysis of paraffin embedded human kidney tissue labelling Monoamine Oxidase B/MAOB with unpurified ab133270 at 1/100 dilution.



OI-RD Scanning - Anti-Monoamine Oxidase B/MAOB antibody [EPR7102] (ab133270)

Equilibrium dissociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-Monoamine Oxidase B/MAOB antibody

[EPR7102] (ab133270)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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