


## Product datasheet

# HRP Anti-Monoamine Oxidase A/MAO-A antibody [EPR7101] $\alpha$ b200928

Recombinant RabMAb

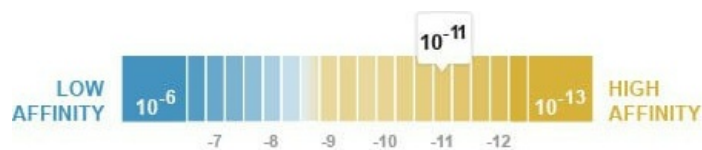
[1 References](#) [3 Images](#)

### Overview

<b>Product name</b>	HRP Anti-Monoamine Oxidase A/MAO-A antibody [EPR7101]
<b>Description</b>	HRP Rabbit monoclonal [EPR7101] to Monoamine Oxidase A/MAO-A
<b>Host species</b>	Rabbit
<b>Conjugation</b>	HRP
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat 
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: HepG2 whole cell lysate and Human Fetal Liver tissue lysate. IHC-P: normal human kidney tissue sections
<b>General notes</b>	Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Store In the Dark.
<b>Dissociation constant (K<sub>D</sub>)</b>	K <sub>D</sub> = 5.10 x 10 <sup>-11</sup> M



[Learn more about K<sub>D</sub>](#)

<b>Storage buffer</b>	pH: 7.40 Preservative: 0.1% Proclin 300 Solution Constituents: PBS, 30% Glycerol (glycerin, glycerine), 1% BSA
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<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR7101
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab200928 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
<b>WB</b>		1/5000. Detects a band of approximately 60 kDa (predicted molecular weight: 60 kDa).
<b>IHC-P</b>		1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

## Target

<b>Function</b>	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. MAOA preferentially oxidizes biogenic amines such as 5-hydroxytryptamine (5-HT), norepinephrine and epinephrine.
<b>Tissue specificity</b>	Heart, liver, duodenum, blood vessels and kidney.
<b>Involvement in disease</b>	Defects in MAOA are the cause of Brunner syndrome (BRUNS) [MIM:300615]. Brunner syndrome is a form of X-linked non-dysmorphic mild mental retardation. Male patients are affected by a syndrome of borderline mental retardation and exhibit abnormal behavior, including disturbed regulation of impulsive aggression. Obligate female carriers have normal intelligence and behavior.
<b>Sequence similarities</b>	Belongs to the flavin monoamine oxidase family.
<b>Cellular localization</b>	Mitochondrion outer membrane.

## Images



Western blot - HRP Anti-Monoamine Oxidase A/MAO-A antibody [EPR7101] (ab200928)

**All lanes :** HRP Anti-Monoamine Oxidase A/MAO-A antibody [EPR7101] (ab200928) at 1/5000 dilution

**Lane 1 :** HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate

**Lane 2 :** Liver (Human) Tissue Lysate - fetal tissue

Lysates/proteins at 10 µg per lane.

Developed using the ECL technique.

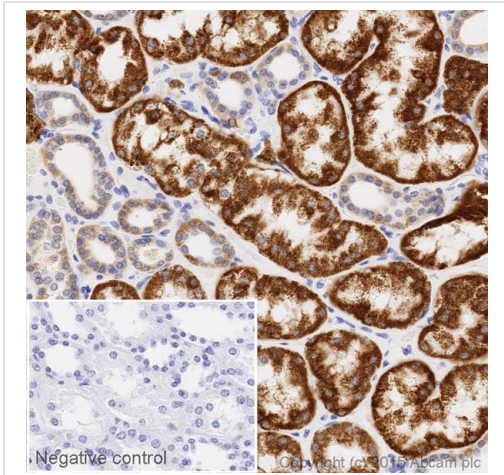
Performed under reducing conditions.

**Predicted band size:** 60 kDa

**Observed band size:** 60 kDa

**Exposure time:** 1 minute

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab200928 overnight at 4°C. Antibody binding was visualised using ECL development solution [ab133406](#).







Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - HRP Anti-Monoamine Oxidase A/MAO-A antibody [EPR7101] (ab200928)

IHC image of Monoamine Oxidase A/MAO-A staining in a section of formalin-fixed paraffin-embedded normal human kidney\*, performed on a Leica BOND. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20mins. The section was then incubated with ab200928, 1/100 dilution, for 15 mins at room temperature. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset negative control image is taken from an identical assay without primary antibody.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

\*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre

**Why choose a recombinant antibody?**

 <b>Research with confidence</b> Consistent and reproducible results	 <b>Long-term and scalable supply</b> Recombinant technology
 <b>Success from the first experiment</b> Confirmed specificity	 <b>Ethical standards compliant</b> Animal-free production

HRP Anti-Monoamine Oxidase A/MAO-A antibody [EPR7101] (ab200928)

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