abcam

Product datasheet

Anti-FMO3 antibody [EPR6968] ab126711

Recombinant RabMAb

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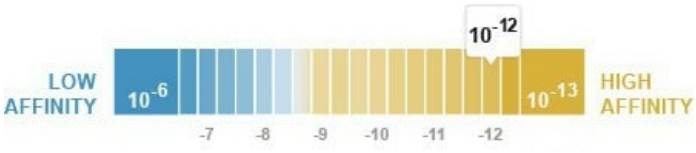
Overview

Product name	Anti-FMO3 antibody [EPR6968]
Description	Rabbit monoclonal [EPR6968] to FMO3
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, WB, IHC-P
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide within Human FMO3 aa 300-400. The exact sequence is proprietary. Database link: **P31513**
Positive control	WB: Human fetal liver, human fetal kidney, mouse kidney, mouse liver, rat kidney and rat liver tissue lysates. IHC-P: Human, mouse and rat liver tissues. ICC/IF: HepG2 cells.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

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)	$K_D = 2.40 \times 10^{-12}$ M  Learn more about K_D
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	EPR6968
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab126711 in the following tested applications.

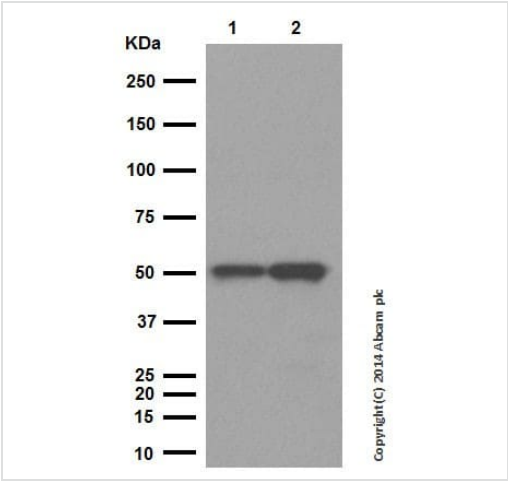
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF	★★★★☆ **(1)**	1/150.
WB	★★★★★ **(2)**	1/5000. Detects a band of approximately 56 kDa (predicted molecular weight: 60 kDa). **For unpurified use at 1/1000 - 1/10000.**
IHC-P		1/500. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**. **For unpurified use at 1/500 - 1/1000.** **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Target

Function	Involved in the oxidative metabolism of a variety of xenobiotics such as drugs and pesticides. It N-oxygenates primary aliphatic alkylamines as well as secondary and tertiary amines. Plays an important role in the metabolism of trimethylamine (TMA), via the production of TMA N-oxide (TMAO). Is also able to perform S-oxidation when acting on sulfide compounds.
Tissue specificity	Liver.
Involvement in disease	Defects in FMO3 are the cause of trimethylaminuria (TMAU) [MIM:602079]; also known as fish-odor syndrome. TMAU is an inborn error of metabolism associated with an offensive body odor and caused by deficiency of FMO-mediated N-oxidation of amino-trimethylamine (TMA) derived from foodstuffs. Such individuals excrete relatively large amounts of TMA in their urine, sweat, and breath, and exhibit a fishy body odor characteristic of the malodorous free amine.
Sequence similarities	Belongs to the FMO family.
Cellular localization	Microsome membrane. Endoplasmic reticulum membrane.

Images



Western blot - Anti-FMO3 antibody [EPR6968] (ab126711)

All lanes : Anti-FMO3 antibody [EPR6968] (ab126711) at 1/5000 dilution (purified)

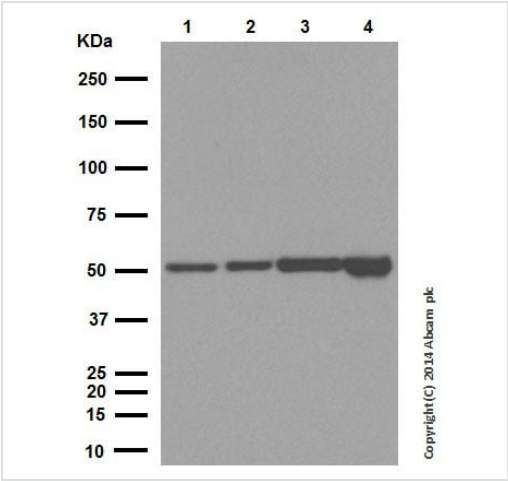
Lane 1 : Human fetal kidney tissue lysate
Lane 2 : Human fetal liver tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 60 kDa
Observed band size: 56 kDa

Blocking and diluting buffer: 5% NFDM/TBST.



Western blot - Anti-FMO3 antibody [EPR6968] (ab126711)

All lanes : Anti-FMO3 antibody [EPR6968] (ab126711) at 1/5000 dilution (purified)

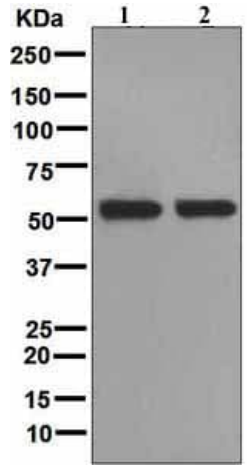
Lane 1 : Mouse kidney tissue lysate
Lane 2 : Mouse liver tissue lysate
Lane 3 : Rat kidney tissue lysate
Lane 4 : Rat liver tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 60 kDa
Observed band size: 56 kDa

Blocking and diluting buffer: 5% NFDM/TBST.



Western blot - Anti-FMO3 antibody [EPR6968] (ab126711)

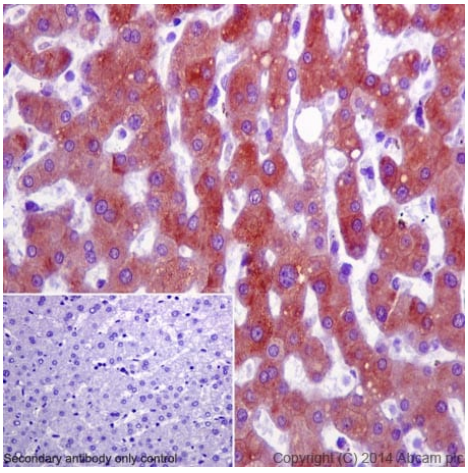
All lanes : Anti-FMO3 antibody [EPR6968] (ab126711) at 1/1000 dilution (unpurified)

Lane 1 : Human fetal liver tissue lysate
Lane 2 : Human fetal kidney tissue lysate

Lysates/proteins at 10 µg per lane.

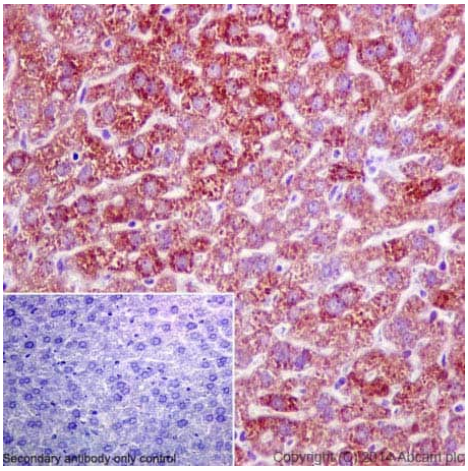
Secondary
All lanes : HRP-conjugated goat anti-rabbit IgG at 1/2000 dilution

Predicted band size: 60 kDa



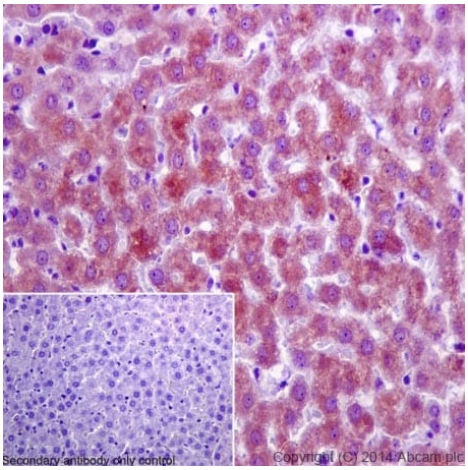
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FMO3 antibody [EPR6968] (ab126711)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human liver tissue labelling FMO3 with purified ab126711 at 1/500. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. **ab97051**, a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



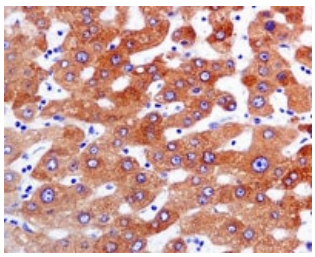
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FMO3 antibody [EPR6968] (ab126711)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse liver tissue labelling FMO3 with purified ab126711 at 1/500. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. **ab97051**, a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FMO3 antibody [EPR6968] (ab126711)

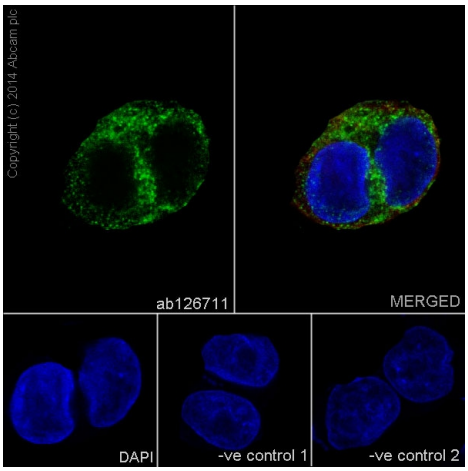
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat liver tissue labelling FMO3 with purified ab126711 at 1/500. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. **ab97051**, a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FMO3 antibody [EPR6968] (ab126711)

Immunohistochemitsy (Formalin/PFA-fixed paraffin-embedded sections) analysis of human liver tissue labelling FMO3 with unpurified ab126711 at a 1/500 dilution.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

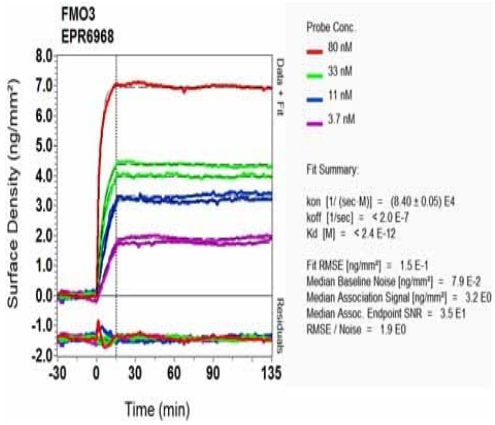


Immunocytochemistry/ Immunofluorescence - Anti-FMO3 antibody [EPR6968] (ab126711)

Immunocytochemistry/Immunofluorescence analysis of HepG2 cells labelling FMO3 with purified ab126711 at 1/150. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/500) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain. **ab7291**, a mouse anti-tubulin (1/500) and **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/500) were also used.

Control 1: primary antibody (1/100) and secondary antibody, **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/500).

Control 2: **ab7291** (1/1000) and secondary antibody, **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/500).



OI-RD Scanning - Anti-FMO3 antibody [EPR6968] (ab126711)

Equilibrium disassociation constant (K_D)

Learn more about K_D

Click here to learn more about K_D

Anti-FMO3 antibody [EPR6968] (ab126711)

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