

Product datasheet

Anti-CYP2D6 antibody [EPR17868] ab185625

Recombinant RabMAb

[3 References](#) [10 Images](#)

Overview

Product name	Anti-CYP2D6 antibody [EPR17868]
Description	Rabbit monoclonal [EPR17868] to CYP2D6
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF, Flow Cyt (Intra)
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: CYP2D6 transfected 293T lysate; Human fetal liver lysate; HeLa, K562, HepG2 and HT-29 whole cell lysates. IHC-P: Human liver, kidney and hepatocellular carcinoma tissues. ICC/IF: HT-29 cells. Flow Cyt (intra): HT-29 cells.
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>

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 long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR17868

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab185625 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. Detects a band of approximately 55, 50 kDa (predicted molecular weight: 55, 50 kDa).
IHC-P		1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/1000.
Flow Cyt (Intra)		1/300. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Target

Function

Responsible for the metabolism of many drugs and environmental chemicals that it oxidizes. It is involved in the metabolism of drugs such as antiarrhythmics, adrenoceptor antagonists, and tricyclic antidepressants.

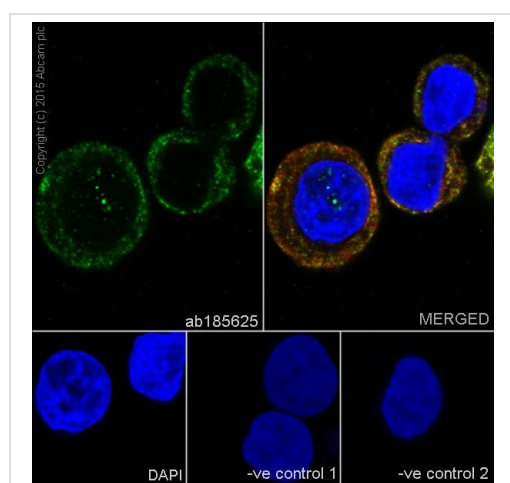
Sequence similarities

Belongs to the cytochrome P450 family.

Cellular localization

Endoplasmic reticulum membrane. Microsome membrane.

Images



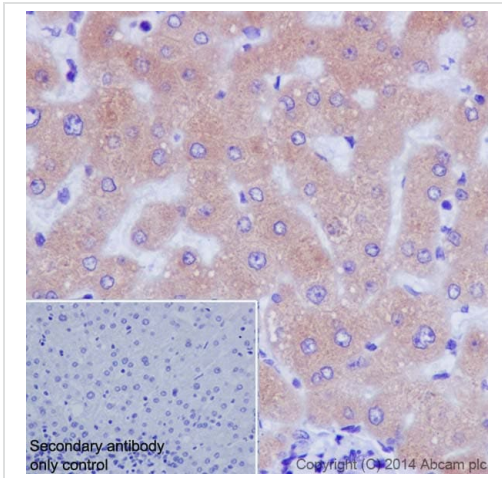
Immunocytochemistry/ Immunofluorescence - Anti-CYP2D6 antibody [EPR17868] (ab185625)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HT-29 (Human colorectal adenocarcinoma cells) cells labeling CYP2D6 with ab185625 at 1/1000 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/400 dilution (green). Cytoplasmic staining on HT-29 cell line is observed. The nuclear counter stain is DAPI (blue). Tubulin is detected with **ab7291** (anti-Tubulin mouse mAb) at 1/500 dilution and **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution (red).

The negative controls are as follows:

- ve control 1: ab185625 at 1/1000 dilution followed by **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution.
- ve control 2: **ab7291** (anti-Tubulin mouse mAb) at 1/500 dilution

followed by **ab150077** (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/400 dilution.

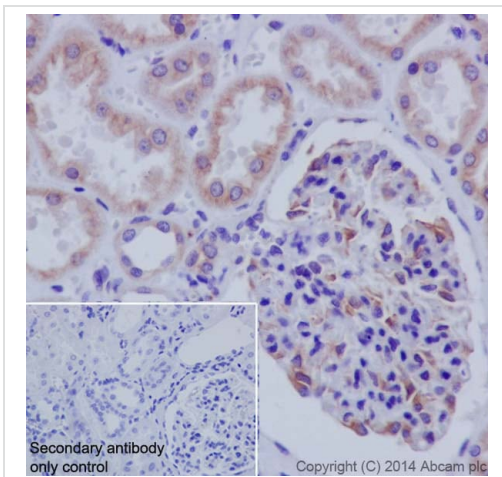


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CYP2D6 antibody [EPR17868] (ab185625)

Immunohistochemical analysis of paraffin-embedded Human liver tissue labeling CYP2D6 with ab185625 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) secondary antibody at 1/500 dilution. Cytoplasmic staining on Human liver is observed. Counter stained with Hematoxylin.

Negative control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

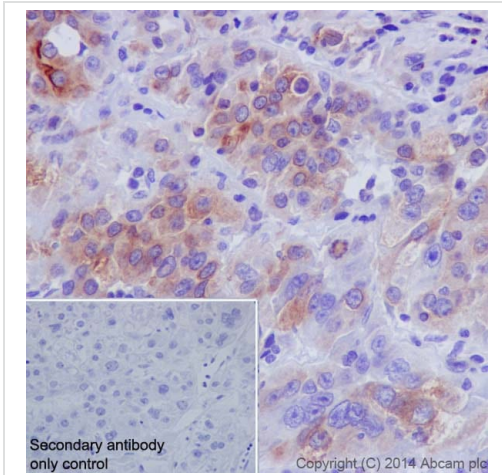


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CYP2D6 antibody [EPR17868] (ab185625)

Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling CYP2D6 with ab185625 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) secondary antibody at 1/500 dilution. Cytoplasmic staining on Human kidney is observed. Counter stained with Hematoxylin.

Negative control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

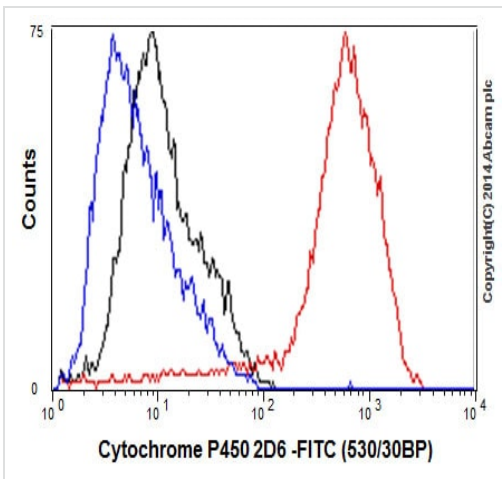


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CYP2D6 antibody [EPR17868] (ab185625)

Immunohistochemical analysis of paraffin-embedded Human hepatocellular carcinoma tissue labeling CYP2D6 with ab185625 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) secondary antibody at 1/500 dilution. Cytoplasmic staining on Human hepatocellular carcinoma is observed. Counter stained with Hematoxylin.

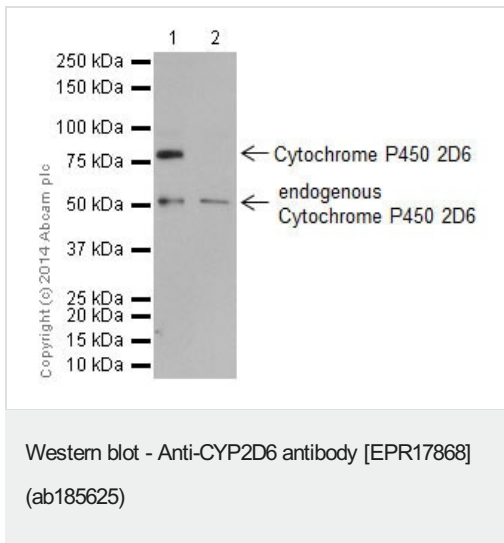
Negative control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-CYP2D6 antibody [EPR17868] (ab185625)

Intracellular flow cytometric analysis of 2% paraformaldehyde-fixed HT-29 (Human colorectal adenocarcinoma cells) cells labeling CYP2D6 with ab185625 at 1/300 dilution (red) compared with a rabbit monoclonal IgG isotype control (**ab172730**) (black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody; blue). Goat anti rabbit IgG (FITC) at 1/150 dilution was used as the secondary antibody.



All lanes : Anti-CYP2D6 antibody [EPR17868] (ab185625) at 1/10000 dilution

Lane 1 : Full-length CYP2D6 transfected 293T cell lysate

Lane 2 : Non-transfected 293T lysate

Lysates/proteins at 10 µg per lane.

Secondary

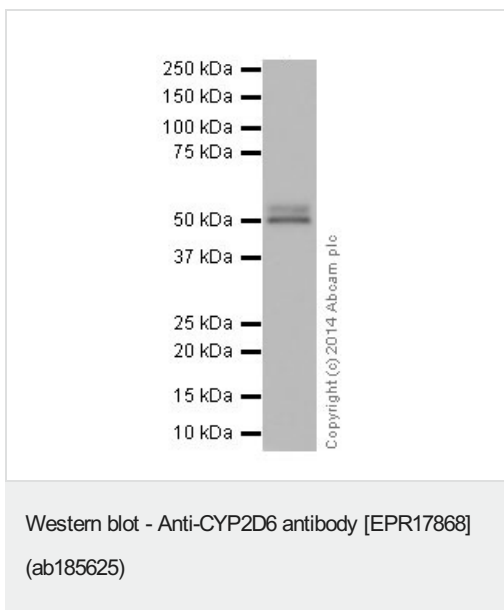
All lanes : Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 55, 50 kDa

Observed band size: 81 kDa

Blocking/Dilution buffer: 5% NFDm/TBST.

Full-length CYP2D6 293T overexpressed lysates contain GFP tagged-aa1-497.



Anti-CYP2D6 antibody [EPR17868] (ab185625) at 1/10000 dilution + Human fetal liver tissue lysate at 20 µg

Secondary

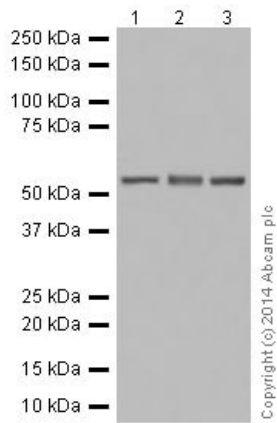
Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 55, 50 kDa

Observed band size: 50,55 kDa

Blocking/Dilution buffer: 5% NFDm/TBST.

Based on the sequence analysis, ab185625 recognizes two isoforms with the predicted MWs of 55kDa and 50kDa respectively.



Western blot - Anti-CYP2D6 antibody [EPR17868]
(ab185625)

All lanes : Anti-CYP2D6 antibody [EPR17868] (ab185625) at 1/10000 dilution

Lane 1 : HeLa (Human epithelial cells from cervix adenocarcinoma) whole cell lysate

Lane 2 : K562 (Human chronic myelogenous leukemia cells from bone marrow) whole cell lysate

Lane 3 : HepG2 (Human liver hepatocellular carcinoma) whole cell lysate

Lysates/proteins at 20 µg per lane.

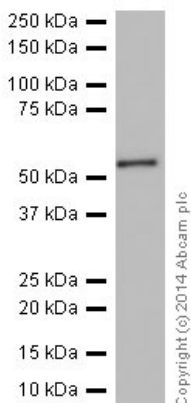
Secondary

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

Predicted band size: 55, 50 kDa

Observed band size: 55 kDa

Blocking/Dilution buffer: 5% NFDm/TBST.



Western blot - Anti-CYP2D6 antibody [EPR17868]
(ab185625)

Anti-CYP2D6 antibody [EPR17868] (ab185625) at 1/1000 dilution + HT-29 (Human colorectal adenocarcinoma cells) whole cell lysate at 10 µg

Secondary

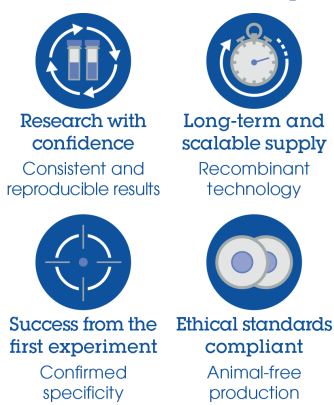
Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 55, 50 kDa

Observed band size: 55 kDa

Blocking/Dilution buffer: 5% NFDm/TBST.

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-CYP2D6 antibody [EPR17868] (ab185625)

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