

## Product datasheet

# Anti-CYP2D6 antibody [EPR17868] - BSA and Azide free ab250842

Recombinant RabMAb

10 Images

### Overview

<b>Product name</b>	Anti-CYP2D6 antibody [EPR17868] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR17868] to CYP2D6 - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, Flow Cyt (Intra), ICC/IF, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
<b>General notes</b>	<p>ab250842 is the carrier-free version of <a href="#">ab185625</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>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>.</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR17868
<b>Isotype</b>	IgG

## Applications

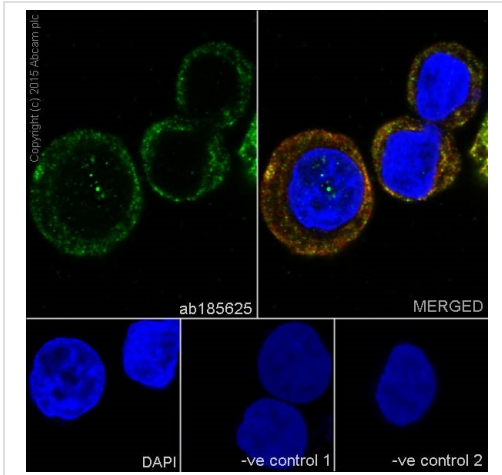
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab250842 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>IHC-P</b>		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
<b>Flow Cyt (Intra)</b>		Use at an assay dependent concentration.
<b>ICC/IF</b>		Use at an assay dependent concentration.
<b>WB</b>		Use at an assay dependent concentration. Detects a band of approximately 55, 50 kDa (predicted molecular weight: 55, 50 kDa).

## Target

<b>Function</b>	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.
<b>Sequence similarities</b>	Belongs to the cytochrome P450 family.
<b>Cellular localization</b>	Endoplasmic reticulum membrane. Microsome membrane.

## Images



Immunocytochemistry/ Immunofluorescence - Anti-CYP2D6 antibody [EPR17868] - BSA and Azide free (ab250842)

This data was developed using **ab185625**, the same antibody clone in a different buffer formulation.

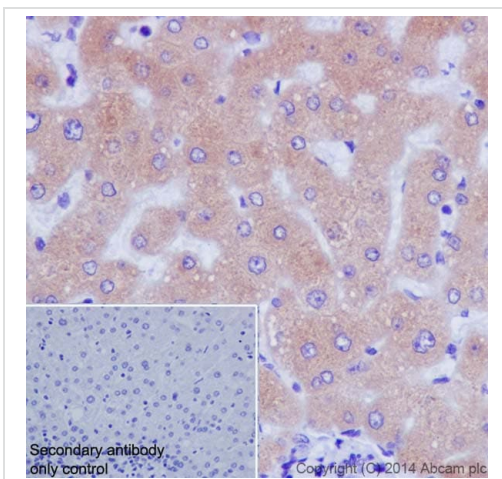
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HT-29 (Human colorectal adenocarcinoma cells) cells labeling CYP2D6 with **ab185625** at 1/1000 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/400 dilution (green).

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.

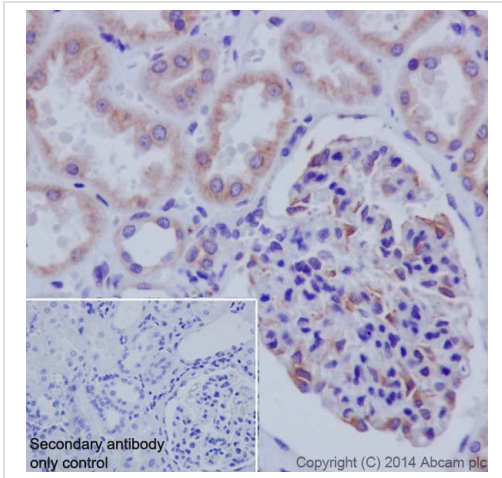
-ve control 2: **ab7291** (anti-Tubulin mouse mAb) at 1/500 dilution followed by **ab150077** (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/400 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CYP2D6 antibody [EPR17868] - BSA and Azide free (ab250842)

This data was developed using **ab185625**, the same antibody clone in a different buffer formulation.

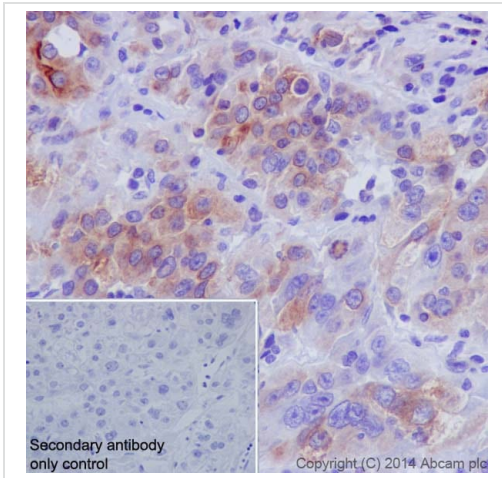
Immunohistochemical analysis of paraffin-embedded Human liver tissue labeling CYP2D6 with **ab185625** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) secondary antibody at 1/500 dilution. Cytoplasmic staining on Human liver is observed. Counter stained with Hematoxylin. Negative 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] - BSA and Azide free (ab250842)

This data was developed using [ab185625](#), the same antibody clone in a different buffer formulation.

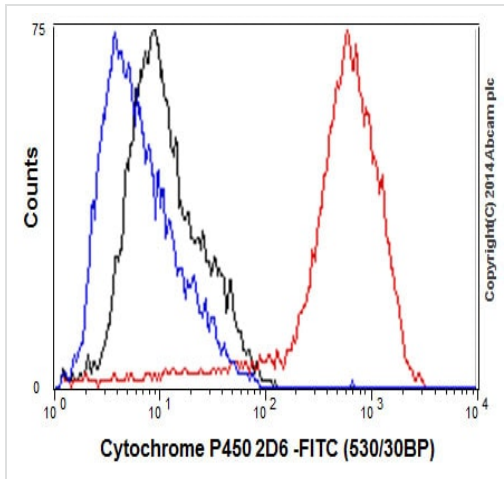
Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling CYP2D6 with [ab185625](#) at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) secondary antibody at 1/500 dilution. Cytoplasmic staining on Human kidney is observed. Counter stained with Hematoxylin. 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] - BSA and Azide free (ab250842)

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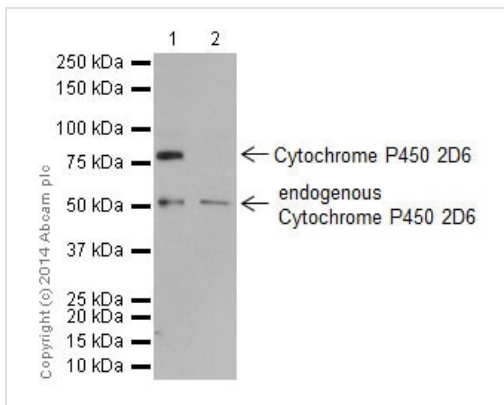
Immunohistochemical analysis of paraffin-embedded Human hepatocellular carcinoma tissue labeling CYP2D6 with [ab185625](#) at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) secondary antibody at 1/500 dilution. Cytoplasmic staining on Human hepatocellular carcinoma is observed. 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] - BSA and Azide free (ab250842)

This data was developed using [ab185625](#), the same antibody clone in a different buffer formulation.

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.



Western blot - Anti-CYP2D6 antibody [EPR17868] - BSA and Azide free (ab250842)

**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

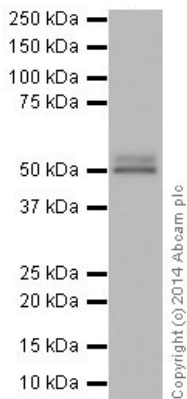
**Predicted band size:** 55, 50 kDa

**Observed band size:** 81 kDa

This data was developed using [ab185625](#), the same antibody clone in a different buffer formulation.

**Blocking and dilution buffer:** 5% NFD/MTBST.

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



Western blot - Anti-CYP2D6 antibody [EPR17868] - BSA and Azide free (ab250842)

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

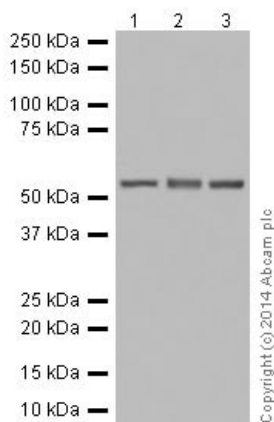
**Predicted band size:** 55, 50 kDa

**Observed band size:** 50,55 kDa

This data was developed using [ab185625](#), the same antibody clone in a different buffer formulation.

**Blocking and 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] - BSA and Azide free (ab250842)

**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

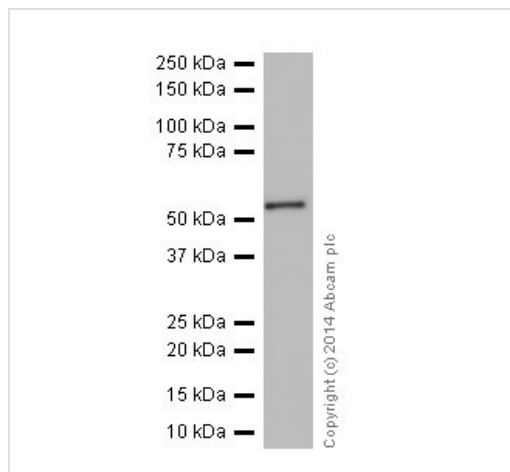
**All lanes :** Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

**Predicted band size:** 55, 50 kDa

**Observed band size:** 55 kDa

This data was developed using [ab185625](#), the same antibody clone in a different buffer formulation.

**Blocking and dilution buffer:** 5% NFDm/TBST.



Western blot - Anti-CYP2D6 antibody [EPR17868] - BSA and Azide free (ab250842)

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

This data was developed using [ab185625](#), the same antibody clone in a different buffer formulation.

**Blocking and dilution buffer:** 5% NFDm/TBST.

Why choose a recombinant antibody?

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

Anti-CYP2D6 antibody [EPR17868] - BSA and Azide free (ab250842)

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