

## Product datasheet

# Anti-Ornithine Decarboxylase/ODC antibody ab66067

★★★★★ 1 Abreviews 7 References 4 Images

### Overview

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<b>Product name</b>	Anti-Ornithine Decarboxylase/ODC antibody
<b>Description</b>	Mouse monoclonal to Ornithine Decarboxylase/ODC
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, Flow Cyt, ELISA, WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant full length protein corresponding to Human Ornithine Decarboxylase/ODC.
<b>Positive control</b>	Ornithine Decarboxylase/ODC transfected 293T cell lysate. IF/ICC: HepG2 cell line.
<b>General notes</b>	<p>Previously labelled as Ornithine Decarboxylase.</p> <p>This product was changed from ascites to tissue culture supernatant on 24/1/19. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.</p> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications &amp; species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications &amp; species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications &amp; species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications &amp; species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&amp;As.</p>

## Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.4 Constituent: PBS
<b>Purity</b>	Tissue culture supernatant
<b>Purification notes</b>	Purified from TCS.
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	IgG2b
<b>Light chain type</b>	kappa

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab66067** 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		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration. <a href="#">ab170192</a> - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.
ELISA		Use at an assay dependent concentration. The detection limit for recombinant tagged Ornithine Decarboxylase is approximately 30ng/ml as a capture antibody.
WB		Use at an assay dependent concentration. Detects a band of approximately 51 kDa (predicted molecular weight: 51 kDa).
IHC-P	★★★★★	Use at an assay dependent concentration.

## Target

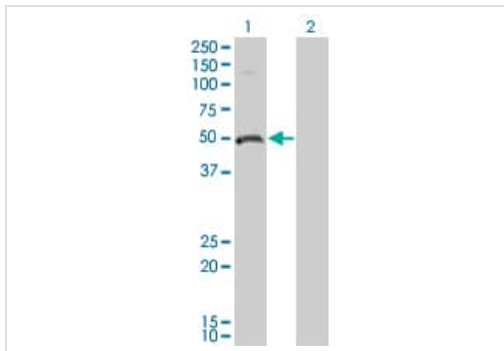
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<b>Pathway</b>	Amine and polyamine biosynthesis; putrescine biosynthesis via L-ornithine pathway; putrescine from L-ornithine: step 1/1.
<b>Sequence similarities</b>	Belongs to the Orn/Lys/Arg decarboxylase class-II family.
<b>Post-translational modifications</b>	S-Nitrosylation inhibits the enzyme. S-Nitrosylated in vitro on 4 cysteine residues.

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## Images

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Western blot - Anti-Ornithine Decarboxylase/ODC antibody (ab66067)

**All lanes** : Anti-Ornithine Decarboxylase/ODC antibody (ab66067) at 1  $\mu\text{g/ml}$

**Lane 1** : Ornithine Decarboxylase/ODC transfected 293T cell lysate

**Lane 2** : Non-transfected 293T cell lysate.

Lysates/proteins at 50  $\mu\text{g}$  per lane.

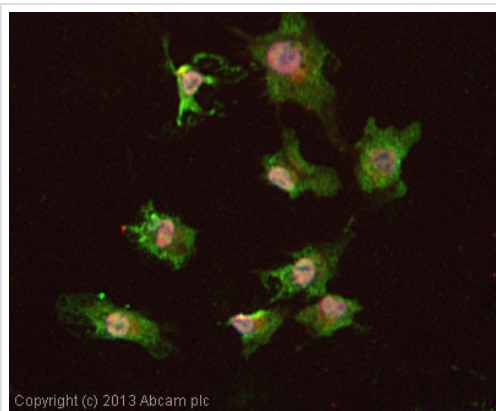
### Secondary

**All lanes** : Goat Anti-Mouse IgG (H&L)-HRP at 1/2500 dilution

**Predicted band size:** 51 kDa

**Observed band size:** 51 kDa

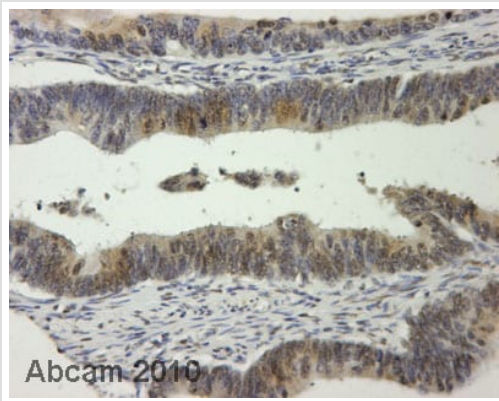
**This image was generated using the ascites version of the product.**



Immunocytochemistry/ Immunofluorescence - Anti-Ornithine Decarboxylase/ODC antibody (ab66067)

ICC/IF image of ab66067 stained HepG2 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab66067, 5 $\mu\text{g/ml}$ ) overnight at +4°C. The secondary antibody (green) was [ab96879](#), DyLight® 488 goat anti-mouse IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43 $\mu\text{M}$ .

**This image was generated using the ascites version of the product.**



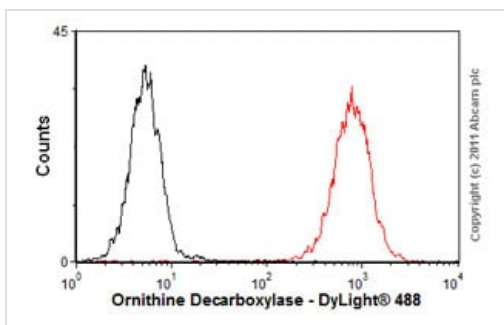
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ornithine

Decarboxylase/ODC antibody (ab66067)

This image is courtesy of an abreview submitted by Aamir Ahmed, University College London, United Kingdom

IHC-P image of Ornithine Decarboxylase/ODC (ab66067) on Colon cancer sections. The sections were fixed in Formaldehyde and underwent heat mediated antigen retrieval using Novacastra (pH6). The sections were then blocked in 0.3% H<sub>2</sub>O<sub>2</sub> solution for 10 mins at 22°C.

**This image was generated using the ascites version of the product.**



Flow Cytometry - Anti-Ornithine Decarboxylase/ODC antibody (ab66067)

Overlay histogram showing HeLa cells stained with ab66067 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab66067, 1µg/1x10<sup>6</sup> cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) ([ab96879](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2b [PLPV219] ([ab91366](#), 2µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in HeLa cells fixed with 4% paraformaldehyde (10 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

**This image was generated using the ascites version of the product.**

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

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