

Product datasheet

Anti-Ornithine Carbamoyltransferase/OTC antibody [EPR19725] α b203859

Recombinant RabMAb

★★★★★ [1 Abreviews](#) [6 References](#) [9 Images](#)

Overview

Product name	Anti-Ornithine Carbamoyltransferase/OTC antibody [EPR19725]
Description	Rabbit monoclonal [EPR19725] to Ornithine Carbamoyltransferase/OTC
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, IHC-Fr, IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human fetal liver and small intestine lysates; Mouse and rat liver lysates. IHC-P: Human liver and liver cancer tissues. IHC-Fr: Mouse liver tissue. IP: Human fetal liver lysate.
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	EPR19725

Isotype

IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab203859 in the following tested applications.

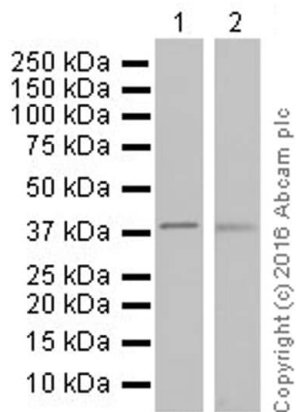
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Detects a band of approximately 40 kDa (predicted molecular weight: 40 kDa).
IHC-P	★★★★★ (1)	1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. IHC-P is recommended for human only.
IHC-Fr		1/500. Antigen retrieval: Heated citrate solution (10mM citrate PH 6.0 + 0.05% Tween-20).
IP		1/40.

Target

Tissue specificity	Mainly expressed in liver and intestinal mucosa.
Pathway	Nitrogen metabolism; urea cycle; L-citrulline from L-ornithine and carbamoyl phosphate: step 1/1.
Involvement in disease	Ornithine carbamoyltransferase deficiency
Sequence similarities	Belongs to the ATCase/OTCase family.
Post-translational modifications	Acetylation at Lys-88 negatively regulates ornithine carbamoyltransferase activity in response to nutrient signals.
Cellular localization	Mitochondrion matrix.

Images



Western blot - Anti-Ornithine Carbamoyltransferase/OTC antibody [EPR19725] (ab203859)

Lane 1 : Anti-Ornithine Carbamoyltransferase/OTC antibody [EPR19725] (ab203859) at 1/5000 dilution

Lane 2 : Anti-Ornithine Carbamoyltransferase/OTC antibody [EPR19725] (ab203859) at 1/1000 dilution

Lane 1 : Human fetal liver lysate

Lane 2 : Human small intestine lysate

Lysates/proteins at 20 µg per lane.

Secondary

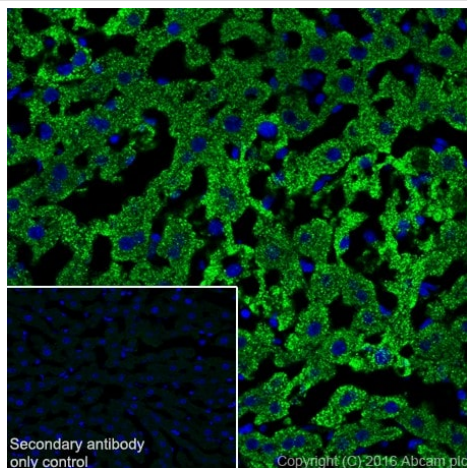
All lanes : Goat Anti-Rabbit IgG Peroxidase Conjugate, specific to the non-reduced form of IgG at 1/100000 dilution

Predicted band size: 40 kDa

Observed band size: 40 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDm/TBST.



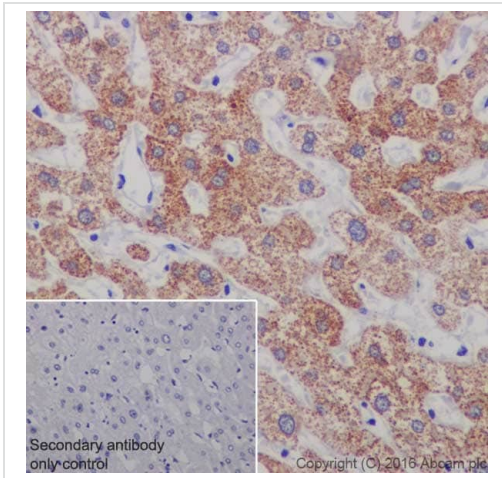
Immunohistochemical analysis of 4% paraformaldehyde-fixed, 0.2% Triton X-100 permeabilized Mouse liver tissue labeling Ornithine Carbamoyltransferase/OTC with ab203859 at 1/500 dilution, followed by Goat Anti-Rabbit IgG (Alexa Fluor® 488) (**ab150077**) at 1/1000 dilution (green).

Cytoplasmic staining on mouse liver is observed.

Nuclear counterstain: DAPI (Blue).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is **ab150077** at 1/1000 dilution.

Immunohistochemistry (Frozen sections) - Anti-Ornithine Carbamoyltransferase/OTC antibody [EPR19725] (ab203859)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ornithine Carbamoyltransferase/OTC antibody [EPR19725] (ab203859)

Immunohistochemical analysis of paraffin-embedded Human liver tissue labeling Ornithine Carbamoyltransferase/OTC with ab203859 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution.

Cytoplasmic staining on Human liver tissue is observed [PMID: 17893704].

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is [ab97051](#) at 1/500 dilution.

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



Western blot - Anti-Ornithine Carbamoyltransferase/OTC antibody [EPR19725] (ab203859)

All lanes : Anti-Ornithine Carbamoyltransferase/OTC antibody [EPR19725] (ab203859) at 1/1000 dilution

Lane 1 : Mouse liver lysate

Lane 2 : Rat liver lysate

Lysates/proteins at 20 µg per lane.

Secondary

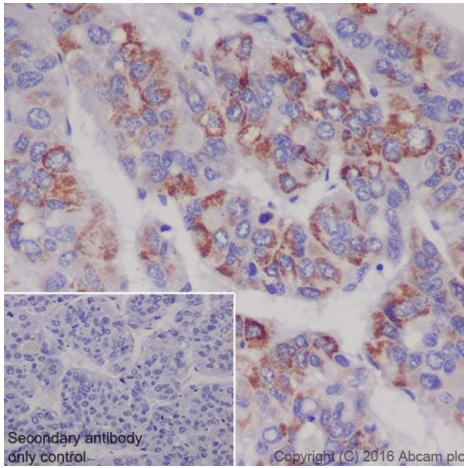
All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Predicted band size: 40 kDa

Observed band size: 40 kDa

Blocking/Dilution buffer: 5% NFDm/TBST.

Exposure time: Lane 1: 15 seconds; Lane 2: 30 seconds.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Omithine Carbamoyltransferase/OTC antibody [EPR19725] (ab203859)

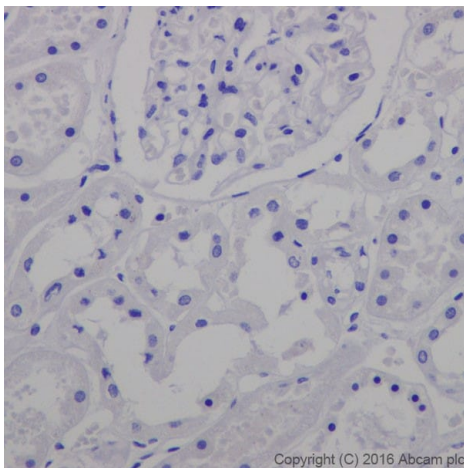
Immunohistochemical analysis of paraffin-embedded Human liver cancer tissue labeling Ornithine Carbamoyltransferase/OTC with ab203859 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution.

Cytoplasmic staining on Human liver cancer tissue is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is [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-Omithine Carbamoyltransferase/OTC antibody [EPR19725] (ab203859)

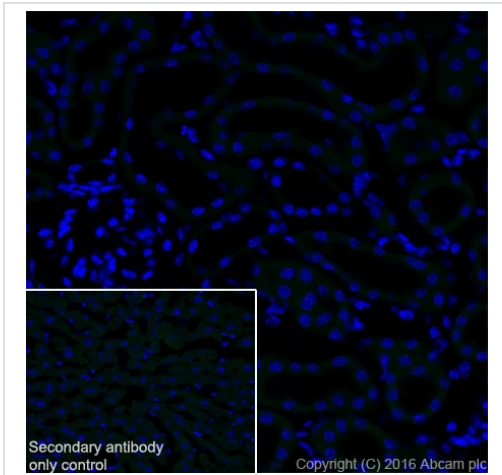
Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling Ornithine Carbamoyltransferase/OTC with ab203859 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution.

No staining on Human kidney is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is [ab97051](#) at 1/500 dilution.

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



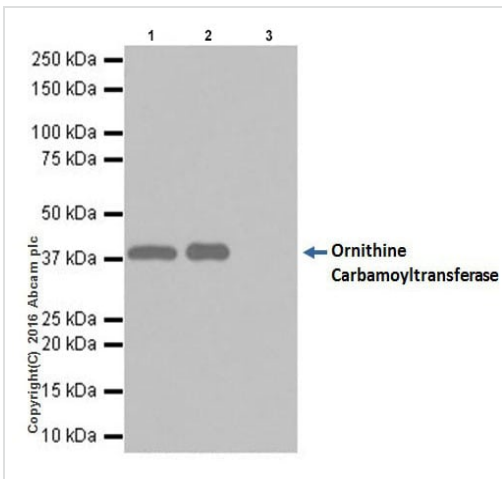
Immunohistochemical analysis of 4% paraformaldehyde-fixed, 0.2% Triton X-100 permeabilized Mouse kidney tissue labeling Ornithine Carbamoyltransferase/OTC with ab203859 at 1/500 dilution, followed by Goat Anti-Rabbit IgG (Alexa Fluor® 488) (**ab150077**) at 1/1000 dilution (green).

Weakly staining on mouse kidney.

Nuclear counterstain: DAPI (Blue).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is **ab150077** at 1/1000 dilution.

Immunohistochemistry (Frozen sections) - Anti-Ornithine Carbamoyltransferase/OTC antibody [EPR19725] (ab203859)



Immunoprecipitation - Anti-Ornithine Carbamoyltransferase/OTC antibody [EPR19725] (ab203859)

Ornithine Carbamoyltransferase/OTC was immunoprecipitated from 0.35 mg of Human fetal liver lysate with ab203859 at 1/40 dilution.

Western blot was performed from the immunoprecipitate using ab203859 at 1/1000 dilution.

VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution.

Lane 1: Human fetal liver lysate, 10µg (Input).

Lane 2: ab203859 IP in Human fetal liver lysate.

Lane 3: Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**) instead of ab203859 in Human fetal liver lysate.

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

Exposure time: 3 minutes.

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-Omithine Carbamoyltransferase/OTC antibody
[EPR19725] (ab203859)

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