

Product datasheet

Anti-Ornithine Carbamoyltransferase/OTC antibody [EPR19725] - BSA and Azide free ab222399

Recombinant RabMAb

7 Images

Overview

Product name	Anti-Ornithine Carbamoyltransferase/OTC antibody [EPR19725] - BSA and Azide free
Description	Rabbit monoclonal [EPR19725] to Ornithine Carbamoyltransferase/OTC - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IHC-Fr, WB, IHC-P, IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human Ornithine Carbamoyltransferase/OTC aa 50-150. The exact sequence is proprietary. Database link: P00480
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>ab222399 is the carrier-free version of ab203859 This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.</p> <p>Our carrier-free formats are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>Ab222399 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm.</p> <p><i>Maxpar® is a trademark of Fluidigm Canada Inc.</i></p> <p>Previously labelled as Ornithine Carbamoyltransferase.</p> <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</p>

monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & 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.

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&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR19725
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab222399** in the following tested applications.

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

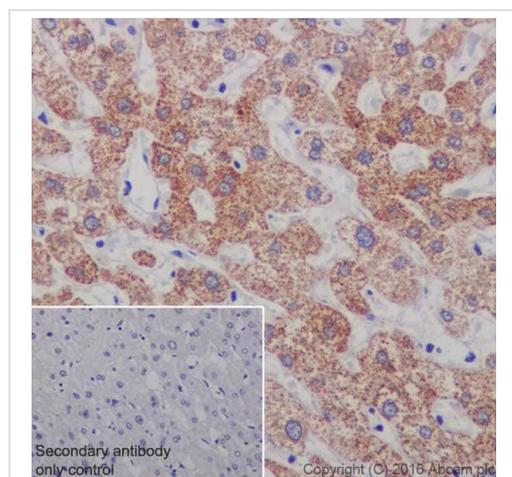
Application	Abreviews	Notes
IHC-Fr		Use at an assay dependent concentration. Antigen retrieval: Heated citrate solution (10mM citrate PH 6.0 + 0.05% Tween-20).
WB		Use at an assay dependent concentration. Detects a band of approximately 40 kDa (predicted molecular weight: 40 kDa).

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. 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.
IP		Use at an assay dependent concentration.

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



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ornithine Carbamoyltransferase/OTC antibody [EPR19725] - BSA and Azide free (ab222399)

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.

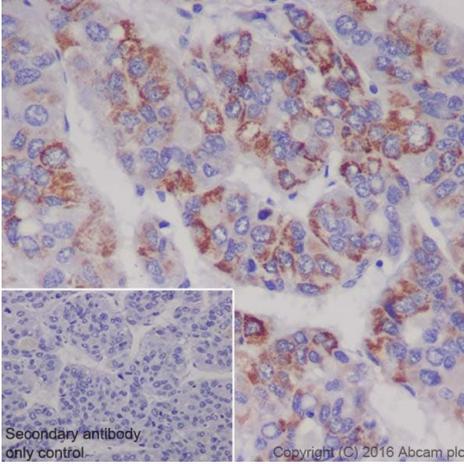
Cytoplasmic staining on Human liver tissue is observed [PMID: 17893704].

Counter stained with Hematoxylin.

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

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab203859](#)).

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] - BSA and Azide free (ab222399)

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.

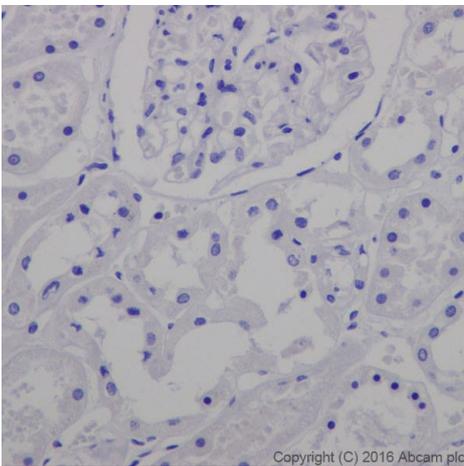
Cytoplasmic staining on Human liver cancer tissue is observed.

Counter stained with Hematoxylin.

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

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab203859](#)).

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] - BSA and Azide free (ab222399)

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.

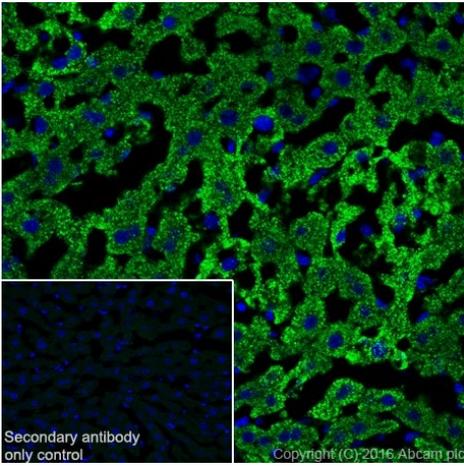
No staining on Human kidney is observed.

Counter stained with Hematoxylin.

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

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab203859](#)).

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



Immunohistochemistry (Frozen sections) - Anti-Ornithine Carbamoyltransferase/OTC antibody [EPR19725] - BSA and Azide free (ab222399)

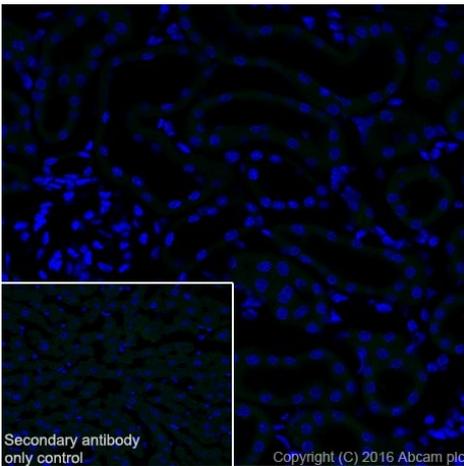
Immunohistochemical analysis of 4% paraformaldehyde-fixed, 0.2% Triton X-100 permeabilized Mouse liver tissue labeling Ornithine Carbamoyltransferase/OTC with [ab203859](#) at 1/500 dilution, followed by Goat Anti-Rabbit IgG (Alexa Fluor® 488) ([ab150077](#)) at 1/1000 dilution (green).

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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab203859](#)).



Immunohistochemistry (Frozen sections) - Anti-Ornithine Carbamoyltransferase/OTC antibody [EPR19725] - BSA and Azide free (ab222399)

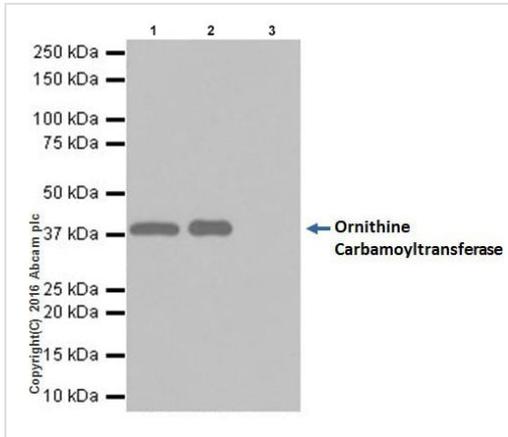
Immunohistochemical analysis of 4% paraformaldehyde-fixed, 0.2% Triton X-100 permeabilized Mouse kidney tissue labeling Ornithine Carbamoyltransferase/OTC with [ab203859](#) at 1/500 dilution, followed by Goat Anti-Rabbit IgG (Alexa Fluor® 488) ([ab150077](#)) at 1/1000 dilution (green).

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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab203859](#)).



Immunoprecipitation - Anti-Ornithine Carbamoyltransferase/OTC antibody [EPR19725] - BSA and Azide free (ab222399)

Ornithine Carbamoyltransferase/OTC 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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab203859](#)).

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-Ornithine Carbamoyltransferase/OTC antibody [EPR19725] - BSA and Azide free (ab222399)

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

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