

OTC Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP6928c

Specification

OTC Antibody (Center) - Product Information

Application IHC-P, FC, WB,E

Primary Accession P00480

Other Accession <u>P00481</u>, <u>O19072</u>, <u>P11725</u>, <u>Q9N1U7</u>, <u>P84010</u>

Reactivity Human, Mouse, Rat Bovine, Pig, Sheep

Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Antigen Region 71-98

OTC Antibody (Center) - Additional Information

Gene ID 5009

Other Names

Ornithine carbamoyltransferase, mitochondrial, Ornithine transcarbamylase, OTCase, OTC

Target/Specificity

This OTC antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 71-98 amino acids of human OTC.

Dilution

IHC-P~~1:10~50 FC~~1:10~50 WB~~1:2000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

OTC Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

OTC Antibody (Center) - Protein Information

Name OTC (HGNC:8512)





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Function Catalyzes the second step of the urea cycle, the condensation of carbamoyl phosphate with L-ornithine to form L-citrulline (PubMed: 2556444, PubMed: 6372096, PubMed: 8112735). The urea cycle ensures the detoxification of ammonia by converting it to urea for excretion (PubMed: 2556444).

Cellular Location Mitochondrion matrix

Tissue Location

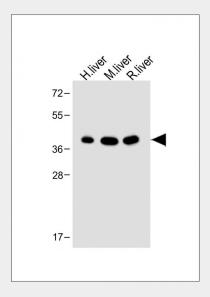
Mainly expressed in liver and intestinal mucosa.

OTC Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

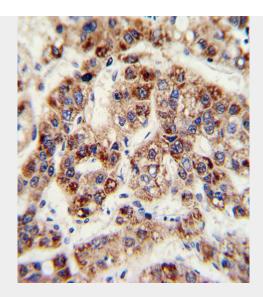
- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

OTC Antibody (Center) - Images

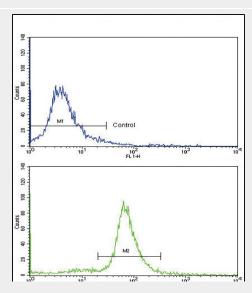


All lanes: Anti-OTC Antibody (Center) at 1:2000 dilution Lane 1: Human liver lysate Lane 2: Mouse liver lysate Lane 3: Rat liver lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size: 40 kDa Blocking/Dilution buffer: 5% NFDM/TBST.





Formalin-fixed and paraffin-embedded human hepatoarcinoma with OTC Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow cytometric analysis of ATDC5 cells using OTC Antibody (Center)(bottom histogram) compared to a negative control (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

OTC Antibody (Center) - Background

OTC is a mitochondrial matrix enzyme. Missense, nonsense, and frameshift mutations in this enzyme lead to ornithine transcarbamylase deficiency, which causes hyperammonemia.

OTC Antibody (Center) - References

Hansmannel,F., et.al., Neurosci. Lett. 449 (1), 76-80 (2009) OTC Antibody (Center) - Citations

• Modeling lethal X-linked genetic disorders in pigs with ensured fertility.