

OTC Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6928c

Specification

OTC Antibody (Center) - Product Information

Application	WB, IHC-P, FC,E
Primary Accession	P00480
Other Accession	P00481 , O19072 , P11725 , O9N1U7 , P84010
Reactivity	Human, Mouse, Rat
Predicted	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

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

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](#))

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

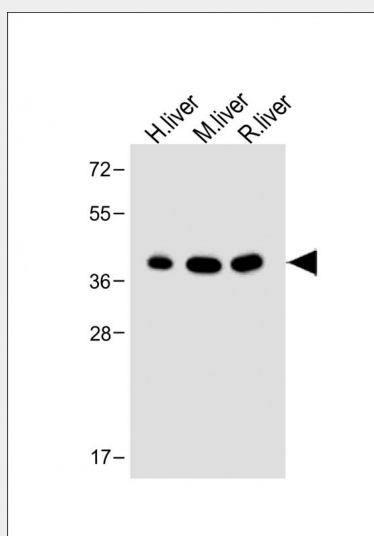
Mainly expressed in liver and intestinal mucosa.

OTC Antibody (Center) - Protocols

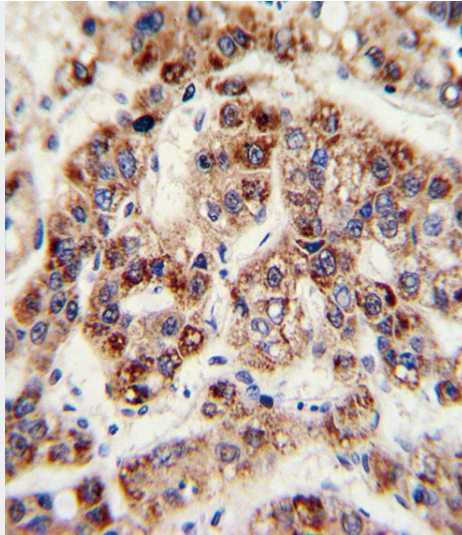
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

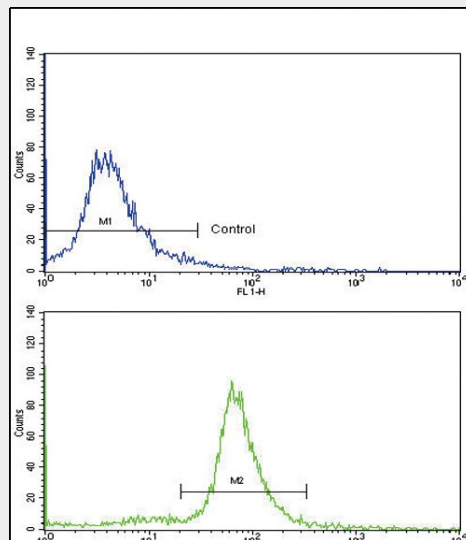
OTC Antibody (Center) - Images



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% NFD/MTBST.



Formalin-fixed and paraffin-embedded human hepatocarcinoma 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

Hansmann, 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.](#)