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OTC Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP6928c

Specification

OTC Antibody (Center) Blocking Peptide - Product Information

Primary Accession P00480

OTC Antibody (Center) Blocking Peptide - Additional Information

Gene ID 5009

Other Names
Ornithine carbamoyltransferase, mitochondrial, Ornithine transcarbamylase, OTCase, OTC

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP6928c was selected from the Center region of human OTC. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

OTC Antibody (Center) Blocking Peptide - 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:6372096, PubMed:8112735, PubMed:2556444). 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) Blocking Peptide - Protocols

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

- Blocking Peptides

OTC Antibody (Center) Blocking Peptide - Images

OTC Antibody (Center) Blocking Peptide - 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) Blocking Peptide - References

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