

#### CPS1 Antibody (N-term) Blocking Peptide

Synthetic peptide Catalog # BP16053a

## **Specification**

## CPS1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession

P31327

## CPS1 Antibody (N-term) Blocking Peptide - Additional Information

**Gene ID 1373** 

#### **Other Names**

Carbamoyl-phosphate synthase [ammonia], mitochondrial, Carbamoyl-phosphate synthetase I, CPSase I, CPS1

#### **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.

## CPS1 Antibody (N-term) Blocking Peptide - Protein Information

## Name CPS1

### **Function**

Involved in the urea cycle of ureotelic animals where the enzyme plays an important role in removing excess ammonia from the cell.

#### **Cellular Location**

Mitochondrion. Nucleus, nucleolus. Cell membrane {ECO:0000250|UniProtKB:Q8C196}; Peripheral membrane protein; Extracellular side {ECO:0000250|UniProtKB:Q8C196} Note=Localizes to the cell surface of hepatocytes {ECO:0000250|UniProtKB:Q8C196}

#### **Tissue Location**

Primarily in the liver and small intestine.

# CPS1 Antibody (N-term) Blocking Peptide - Protocols

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



• Blocking Peptides

# CPS1 Antibody (N-term) Blocking Peptide - Images

# CPS1 Antibody (N-term) Blocking Peptide - Background

The mitochondrial enzyme encoded by this gene catalyzessynthesis of carbamoyl phosphate from ammonia and bicarbonate. Thisreaction is the first committed step of the urea cycle, which isimportant in the removal of excess urea from cells. The encodedprotein may also represent a core mitochondrial nucleoid protein. Three transcript variants encoding different isoforms have beenfound for this gene. The shortest isoform may not be localized to the mitochondrion. Mutations in this gene have been associated with carbamoyl phosphate synthetase deficiency, susceptibility topersistent pulmonary hypertension, and susceptibility tovenoocclusive disease after bone marrow transplantation.

### CPS1 Antibody (N-term) Blocking Peptide - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)Jia, P., et al. Schizophr. Res. 122 (1-3), 38-42 (2010):Pekkala, S., et al. Hum. Mutat. 31(7):801-808(2010)Huo, R., et al. J. Biochem. Mol. Biol. 38(1):28-33(2005)Hoshide, R., et al. Genomics 28(1):124-125(1995)