

ASS1 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP12606b**Specification**

ASS1 Antibody (C-term) Blocking peptide - Product Information

Primary Accession [P00966](#)

ASS1 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 445

Other Names

Argininosuccinate synthase, Citrulline--aspartate ligase, ASS1, ASS

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.

ASS1 Antibody (C-term) Blocking peptide - Protein Information

Name ASS1 ([HGNC:758](#))

Function

One of the enzymes of the urea cycle, the metabolic pathway transforming neurotoxic ammonia produced by protein catabolism into innocuous urea in the liver of ureotelic animals. Catalyzes the formation of argininosuccinate from aspartate, citrulline and ATP and together with ASL it is responsible for the biosynthesis of arginine in most body tissues.

Cellular Location

Cytoplasm, cytosol

Tissue Location

Expressed in adult liver.

ASS1 Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

ASS1 Antibody (C-term) Blocking peptide - Images**ASS1 Antibody (C-term) Blocking peptide - Background**

The protein encoded by this gene catalyzes the penultimate step of the arginine biosynthetic pathway. There are approximately 10 to 14 copies of this gene including the pseudogenes scattered across the human genome, among which the one located on chromosome 9 appears to be the only functional gene for argininosuccinate synthetase. Mutations in the chromosome 9 copy of ASS cause citrullinemia. Two transcript variants encoding the same protein have been found for this gene.

ASS1 Antibody (C-term) Blocking peptide - References

Hozyasz, K.K., et al. Arch. Oral Biol. 55(11):861-866(2010) Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Kobayashi, E., et al. Mol. Cancer Ther. 9(3):535-544(2010) Tsai, W.B., et al. Mol. Cancer Ther. 8(12):3223-3233(2009) Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)