

**ASL Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP8837a****Specification**

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**ASL Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [P04424](#)**ASL Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 435**Other Names**

Argininosuccinate lyase, ASAL, Arginosuccinase, ASL

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP8837a](/products/AP8837a) was selected from the N-term region of human ASL. 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.

**ASL Antibody (N-term) Blocking Peptide - Protein Information****Name** ASL**Function**

Catalyzes the reversible cleavage of L-argininosuccinate to fumarate and L-arginine, an intermediate step reaction in the urea cycle mostly providing for hepatic nitrogen detoxification into excretable urea as well as de novo L-arginine synthesis in nonhepatic tissues (PubMed: [11747433](http://www.uniprot.org/citations/11747433), PubMed: [11747432](http://www.uniprot.org/citations/11747432), PubMed: [9045711](http://www.uniprot.org/citations/9045711), PubMed: [22081021](http://www.uniprot.org/citations/22081021), PubMed: [2263616](http://www.uniprot.org/citations/2263616)). Essential regulator of intracellular and extracellular L-arginine pools. As part of citrulline-nitric oxide cycle, forms tissue-specific multiprotein complexes with argininosuccinate synthase ASS1, transport protein SLC7A1 and nitric oxide synthase NOS1, NOS2 or NOS3, allowing for cell-autonomous L-arginine synthesis while channeling extracellular L-arginine to nitric oxide synthesis pathway

(PubMed:<a href="http://www.uniprot.org/citations/22081021" target="\_blank">22081021</a>).

### **ASL Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **ASL Antibody (N-term) Blocking Peptide - Images**

### **ASL Antibody (N-term) Blocking Peptide - Background**

ASL is a member of the lyase 1 family. This protein forms a cytosolic homotetramer and primarily catalyzes the reversible hydrolytic cleavage of argininosuccinate into arginine and fumarate, an essential step in the liver in detoxifying ammonia via the urea cycle.

### **ASL Antibody (N-term) Blocking Peptide - References**

Barbosa,P., et.al., J. Biol. Chem. 266 (8), 5286-5290 (1991)Linnebank,M., et.al., Hum. Genet. 111 (4-5), 350-359 (2002)