

## ASL Antibody (N-term) Blocking Peptide Synthetic peptide

Catalog # BP8837a

# Specification

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

Primary Accession

<u>P04424</u>

# 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 <a href=/products/AP8837a>AP8837a</a> 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:<a href="http://www.uniprot.org/citations/11747433" target="\_blank">11747433</a>, PubMed:<a href="http://www.uniprot.org/citations/11747432" target="\_blank">11747432</a>, PubMed:<a href="http://www.uniprot.org/citations/11747432" target="\_blank">9045711</a>, PubMed:<a href="http://www.uniprot.org/citations/2081021" target="\_blank">22081021</a>, PubMed:<a href="http://www.uniprot.org/citations/2081021" target="\_blank">22081021</a>, PubMed:<a href="http://www.uniprot.org/citations/22081021" target="\_blank">22081021</a>, PubMed:<a href="http://www.uniprot.org/citations/2263616" target="\_blank">2263616</a>). 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.

#### <u>Blocking Peptides</u>

#### 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)