

ALAS2 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP10455a**Specification**

ALAS2 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession [P22557](#)
Other Accession [NP_000023.2](#)

ALAS2 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 212

Other Names

5-aminolevulinate synthase, erythroid-specific, mitochondrial, ALAS-E, 5-aminolevulinic acid synthase 2, Delta-ALA synthase 2, Delta-aminolevulinate synthase 2, ALAS2, ALASE, ASB

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.

ALAS2 Antibody (N-term) Blocking Peptide - Protein Information

Name ALAS2

Synonyms ALASE, ASB

Function

Catalyzes the pyridoxal 5'-phosphate (PLP)-dependent condensation of succinyl-CoA and glycine to form aminolevulinic acid (ALA), with CoA and CO₂ as by-products (PubMed:14643893, PubMed:32499479, PubMed:21252495, PubMed:21653323, PubMed:21309041). Contributes significantly to heme formation during erythropoiesis (PubMed:2050125).

Cellular Location

Mitochondrion inner membrane; Peripheral membrane protein. Note=Localizes to the matrix side of the mitochondrion inner membrane.

Tissue Location

[Isoform 1]: Erythroid-specific. [Isoform 3]: Erythroid-specific.

ALAS2 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

ALAS2 Antibody (N-term) Blocking Peptide - Images**ALAS2 Antibody (N-term) Blocking Peptide - Background**

ALAS2 specifies an erythroid-specific mitochondrially located enzyme. The encoded protein catalyzes the first step in the heme biosynthetic pathway. Defects in this gene cause X-linked pyridoxine-responsive sideroblastic anemia.

ALAS2 Antibody (N-term) Blocking Peptide - References

Bergmann, A.K., et al. *Pediatr Blood Cancer* 54(2):273-278(2010) Kaneko, K., et al. *FEBS J.* 276(5):1370-1382(2009) Whatley, S.D., et al. *Am. J. Hum. Genet.* 83(3):408-414(2008) Sussman, N.L., et al. *Acta Haematol.* 120(3):168-173(2008) Rabstein, S., et al. *J. Toxicol. Environ. Health Part A* 71 (11-12), 716-724 (2008) :