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ALAS1 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP7486b

Specification

ALAS1 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession P13196

ALAS1 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 211

Other Names
5-aminolevulinate synthase, nonspecific, mitochondrial, ALAS-H, 5-aminolevulinic acid synthase 1, Delta-ALA synthase 1, Delta-aminolevulinate synthase 1, ALAS1, ALAS3, ALASH

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7486b was selected from the C-term region of human ALAS1. 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.

ALAS1 Antibody (C-term) Blocking Peptide - Protein Information

Name ALAS1

Synonyms ALAS3, ALASH

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.

Cellular Location
Mitochondrion inner membrane {ECO:0000250|UniProtKB:P22557}; Peripheral membrane protein {ECO:0000250|UniProtKB:P22557}. Note=Localizes to the matrix side of the mitochondrion inner membrane. {ECO:0000250|UniProtKB:P22557}

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ALAS1 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

ALAS1 Antibody (C-term) Blocking Peptide - Images

ALAS1 Antibody (C-term) Blocking Peptide - Background

ALAS1 catalyzes the condensation of glycine with succinyl-CoA to form delta-aminolevulinic acid. This protein is the first and rate-limiting enzyme in the mammalian heme biosynthetic pathway. There are 2 tissue-specific isozymes: a housekeeping enzyme encoded by the ALAS1 gene and an erythroid tissue-specific enzyme encoded by ALAS2.

ALAS1 Antibody (C-term) Blocking Peptide - References

Zheng,J., Shan,Y. Mol. Cell. Biochem. 319 (1-2), 153-161 (2008)May,B.K., Bhasker,C.R. Mol. Biol. Med. 7 (5), 405-421 (1990)Tsang,H.T., Connell,J.W. Genomics 88 (3), 333-346 (2006)