

SDH Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP8601a**Specification****SDH Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [P21912](#)**SDH Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 6390**Other Names**

Succinate dehydrogenase [ubiquinone] iron-sulfur subunit, mitochondrial, Iron-sulfur subunit of complex II, Ip, SDHB, SDH, SDH1

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP8601a was selected from the N-term region of human SDH. 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.

SDH Antibody (N-term) Blocking Peptide - Protein Information**Name** SDHB**Synonyms** SDH, SDH1**Function**

Iron-sulfur protein (IP) subunit of the succinate dehydrogenase complex (mitochondrial respiratory chain complex II), responsible for transferring electrons from succinate to ubiquinone (coenzyme Q) (PubMed:26925370, PubMed:27604842). SDH also oxidizes malate to the non-canonical enol form of oxaloacetate, enol-oxaloacetate (By similarity). Enol-oxaloacetate, which is a potent inhibitor of the succinate dehydrogenase activity, is further isomerized into keto-oxaloacetate (By similarity).

Cellular Location

Mitochondrion inner membrane; Peripheral membrane protein; Matrix side

SDH Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

SDH Antibody (N-term) Blocking Peptide - Images

SDH Antibody (N-term) Blocking Peptide - Background

Complex II of the respiratory chain, which is specifically involved in the oxidation of succinate, carries electrons from FADH to CoQ. The complex is composed of four nuclear-encoded subunits and is localized in the mitochondrial inner membrane. The iron-sulfur subunit is highly conserved and contains three cysteine-rich clusters which may comprise the iron-sulfur centers of the enzyme.

SDH Antibody (N-term) Blocking Peptide - References

Astuti,D., et.al., Am. J. Hum. Genet. 69 (1), 49-54 (2001)
Au,H.C., et.al., Gene 159 (2), 249-253 (1995)