CCDC51 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP13421b

Specification

CCDC51 Antibody (C-term) Blocking peptide - Product Information

Primary Accession   Q96ER9

CCDC51 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 79714

Other Names
Coiled-coil domain-containing protein 51, CCDC51

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP13421b was selected from the C-term region of CCDC51. 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.

CCDC51 Antibody (C-term) Blocking peptide - Protein Information

Name CCDC51 (HGNC:25714)

Function
Pore-forming subunit of the mitochondrial ATP-gated potassium channel (mitoK(ATP)) (PubMed:31435016). Together with ATP-binding subunit ABCB8/MITOSUR of the mitoK(ATP) channel, mediates ATP-dependent K(+) currents across the mitochondrial inner membrane (PubMed:31435016). An increase in ATP intracellular levels closes the channel, inhibiting K(+) transport, whereas a decrease in ATP levels enhances K(+) uptake in the mitochondrial matrix. May contribute to the homeostatic control of cellular metabolism under stress conditions by regulating the mitochondrial matrix volume (PubMed:31435016).

Cellular Location
Mitochondrion inner membrane; Multi-pass membrane protein

Tissue Location
Isoform 1: Widely expressed (PubMed:31435016). Isoform 2: Expression is barely detectable
(PubMed:31435016)

CCDC51 Antibody (C-term) Blocking peptide - Protocols

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

  • [Blocking Peptides](#)

CCDC51 Antibody (C-term) Blocking peptide - Images

CCDC51 Antibody (C-term) Blocking peptide - Background

 The function of this protein remains unknown.

CCDC51 Antibody (C-term) Blocking peptide - References

 Lamesch, P., et al. Genomics 89(3):307-315(2007)