

SDHAF1 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57594**Specification**

SDHAF1 Polyclonal Antibody - Product Information

| | |
|--------------------------------|---|
| Application | WB, IHC-P, IHC-F, IF, ICC |
| Primary Accession | A6NFY7 |
| Reactivity | Rat, Pig, Dog, Bovine |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 21 KDa |
| Physical State | Liquid |
| Immunogen | KLH conjugated synthetic peptide derived from human SDHAF1 |
| Epitope Specificity | 1-100/115 |
| Isotype | IgG |
| Purity | |
| affinity purified by Protein A | |
| Buffer | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. |
| SUBCELLULAR LOCATION | Mitochondrion matrix. |
| SIMILARITY | Belongs to the complex I LYR family. SDHAF1 subfamily. |
| DISEASE | Mitochondrial complex II deficiency |
| Important Note | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |

Background Descriptions

The succinate dehydrogenase (SDH) complex (or complex II) of the mitochondrial respiratory chain is composed of 4 individual subunits. The protein encoded by this gene resides in the mitochondria, and is essential for SDH assembly, but does not physically associate with the complex in vivo. Mutations in this gene are associated with SDH-defective infantile leukoencephalopathy (mitochondrial complex II deficiency).[provided by RefSeq, Mar 2010]

SDHAF1 Polyclonal Antibody - Additional Information**Gene ID** 644096**Other Names**

Succinate dehydrogenase assembly factor 1, mitochondrial, SDH assembly factor 1, SDHAF1, LYR motif-containing protein 8, SDHAF1 {ECO:0000303|PubMed:19465911, ECO:0000312|HGNC:HGNC:33867}

Target/Specificity

Ubiquitously expressed.

Dilution

WB~~1:1000<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

SDHAF1 Polyclonal Antibody - Protein Information

Name SDHAF1 {ECO:0000303|PubMed:19465911, ECO:0000312|HGNC:HGNC:33867}

Function

Plays an essential role in the assembly of succinate dehydrogenase (SDH), an enzyme complex (also referred to as respiratory complex II) that is a component of both the tricarboxylic acid (TCA) cycle and the mitochondrial electron transport chain, and which couples the oxidation of succinate to fumarate with the reduction of ubiquinone (coenzyme Q) to ubiquinol (PubMed:19465911, PubMed:24954417). Promotes maturation of the iron-sulfur protein subunit SDHB of the SDH catalytic dimer, protecting it from the deleterious effects of oxidants (PubMed:24954417). May act together with SDHAF3 (PubMed:24954417). Contributes to iron-sulfur cluster incorporation into SDHB by binding to SDHB and recruiting the iron-sulfur transfer complex formed by HSC20, HSPA9 and ISCU through direct binding to HSC20 (PubMed:26749241).

Cellular Location

Mitochondrion matrix

Tissue Location

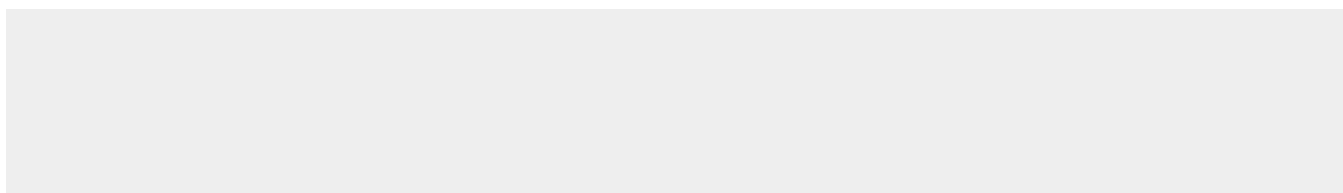
Ubiquitously expressed.

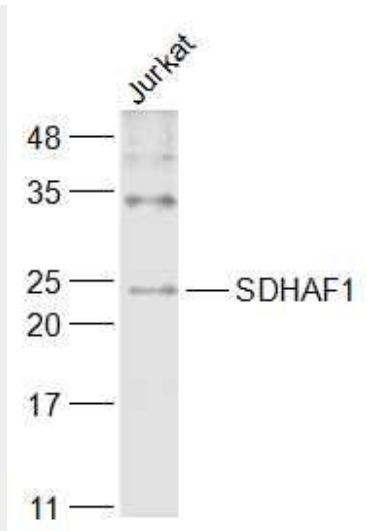
SDHAF1 Polyclonal Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SDHAF1 Polyclonal Antibody - Images





Sample:

Jurkat(Human) Cell Lysate at 30 ug

Primary: Anti-SDHAF1 (bs-19603R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 21 kD

Observed band size: 22 kD