

**Anti-SDHA Antibody**  
**Catalog # ABO10632****Specification**

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**Anti-SDHA Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P31040</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Liquid

**Description**

Rabbit IgG polyclonal antibody for Succinate dehydrogenase[ubiquinone] flavoprotein subunit, mitochondrial(SDHA) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

**Anti-SDHA Antibody - Additional Information**

**Gene ID** 6389

**Other Names**

Succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial, 1.3.5.1, Flavoprotein subunit of complex II, Fp, SDHA, SDH2, SDHF

**Calculated MW**

72692 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Rat, Mouse, By Heat<br>Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse<br>

**Subcellular Localization**

Mitochondrion inner membrane; Peripheral membrane protein; Matrix side.

**Protein Name**

Succinate dehydrogenase[ubiquinone] flavoprotein subunit, mitochondrial

**Contents**

Each vial contains 50% glycerol, 0.9mg NaCl, 0.2mg Na2HPO4. Carrier free (No BSA) form available in stock. If you want this antibody carrier free please specify "Carrier Free" or "No BSA" in your order note. "

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human SDHA(641-656aa YRPVIDKTLNEADCAT), identical to the related rat and mouse sequences.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

Storage

**At -20°C for one year, at 4°C for one month. Avoid repeated freezing and thawing.**

#### Sequence Similarities

Belongs to the FAD-dependent oxidoreductase 2 family. FRD/SDH subfamily.

### Anti-SDHA Antibody - Protein Information

**Name** SDHA

**Synonyms** SDH2, SDHF

#### Function

Flavoprotein (FP) subunit of succinate dehydrogenase (SDH) that is involved in complex II of the mitochondrial electron transport chain and is responsible for transferring electrons from succinate to ubiquinone (coenzyme Q) (PubMed:<a href="http://www.uniprot.org/citations/24781757" target="\_blank">24781757</a>). Can act as a tumor suppressor (PubMed:<a href="http://www.uniprot.org/citations/20484225" target="\_blank">20484225</a>).

#### Cellular Location

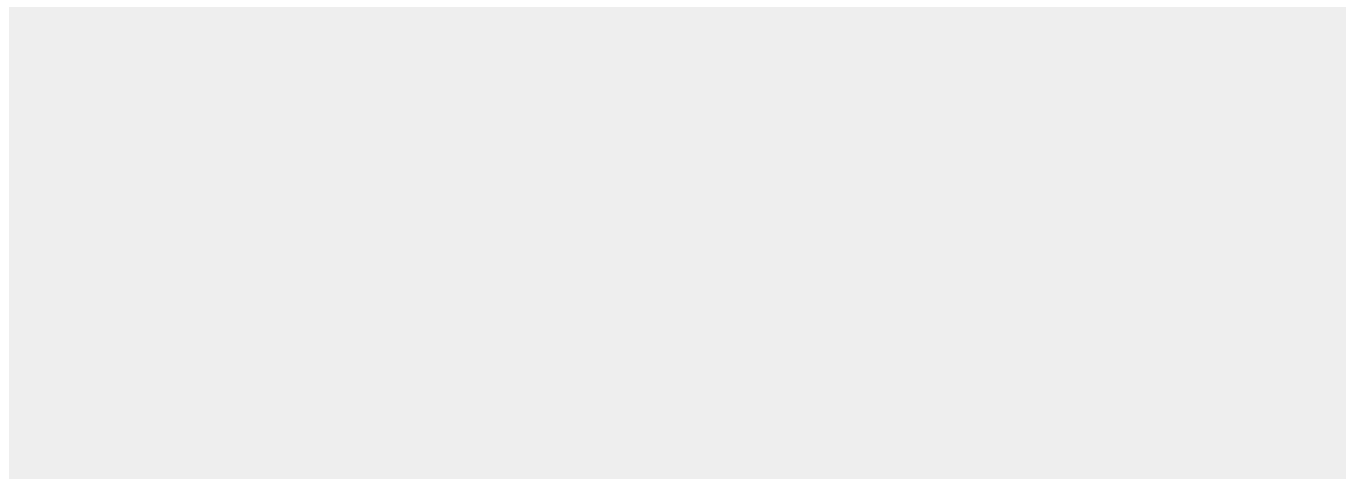
Mitochondrion inner membrane {ECO:0000250|UniProtKB:Q0QF01}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q0QF01}; Matrix side {ECO:0000250|UniProtKB:Q0QF01}

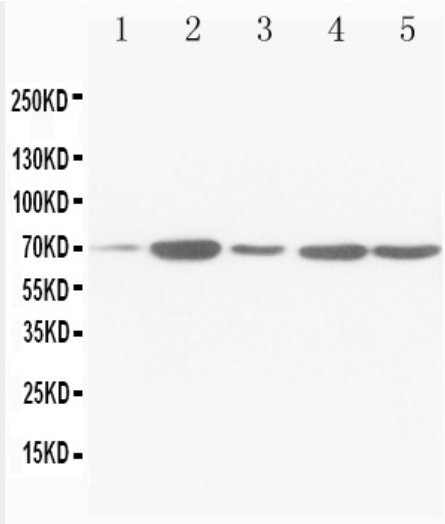
### Anti-SDHA Antibody - Protocols

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

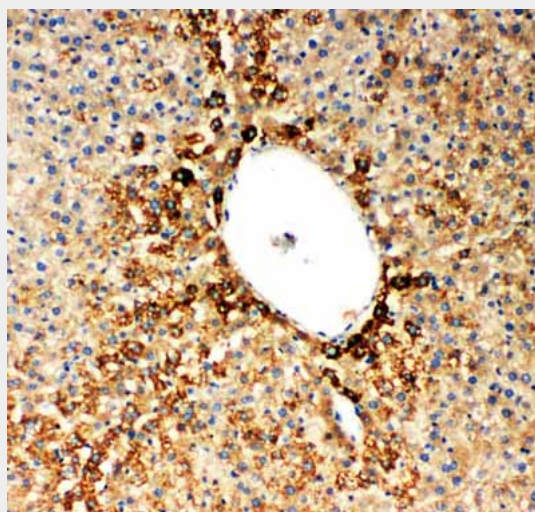
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-SDHA Antibody - Images

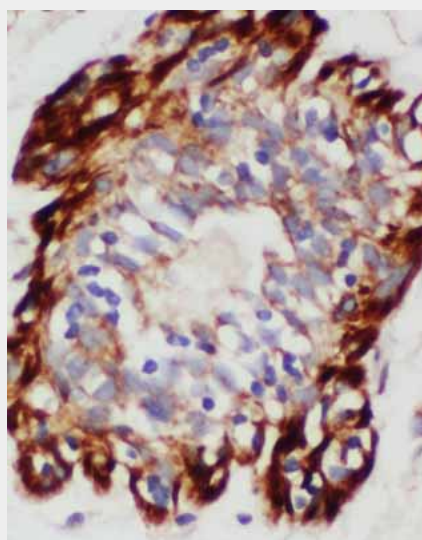




Anti-SDHA antibody, ABO10632, Western blotting  
Lane 1: MCF-7 Cell Lysate  
Lane 2: HELA Cell Lysate  
Lane 3: JURKAT Cell Lysate  
Lane 4: HT1080 Cell Lysate  
Lane 5: COLO320 Cell Lysate



Anti-SDHA antibody, ABO10632, IHC(P)  
IHC(P): Rat Liver Tissue



Anti-SDHA antibody, ABO10632, IHC(P)  
IHC(P): Human Mammary Cancer Tissue

## **Anti-SDHA Antibody - Background**

Complex II of the mitochondrial respiratory chain, also known as succinate dehydrogenase or succinate:ubiquinone oxidoreductase, consists of 4 nuclear-encoded polypeptides, these are the flavoprotein subunit(SDHA), the iron sulfur protein subunit(SDHB), and the integral membrane protein subunits SDHC and SDHD. SDHA is an acronym for succinate dehydrogenase complex subunit A. The succinate dehydrogenase(SDH) protein complex catalyzes the oxidation of succinate(succinate + ubiquinone => fumarate + ubiquinol). The SDHA subunit is connected to the SDHB subunit on the hydrophilic, catalytic end of the complex, and weighs 72.7 kDA. Mutations in the SDHA subunit have a distinct pathology from mutations in the SDHB/SDHC/SDHD subunits; it is the only subunit to never have shown tumor suppressor behaviour. Heterozygous carriers of an SDHA mutation do not develop paragangliomas as has been seen for mutations in the other subunits. This appears to be due to the expression of two similar SDHA genes(Types I and II) in the paraganglia system.